

JOURNALS FROM WHICH ABSTRACTS ARE MADE.

The following is a list of the principal Journals from which abstracts are made (directly or indirectly) by the Bureau of Chemical Abstracts. Further information regarding any of these Journals may be obtained from the Secretary of the Bureau.

ABBREVIATED TITLE.	JOURNAL.	ABBREVIATED TITLE.	JOURNAL.
Abh. Böhm. Akad.	Abhandlungen der Böhmischen Akademie.	Arch. Néerland. physiol.	Archives Néerlandaises de physiologie de l'homme et des animaux.
Acta Phytochim.	Acta Phytochimica.	Arch. Pharm.	Archiv der Pharmazie.
Acta Sci. Fenniae	Acta Societatis Scientiarum Fennicae.	Arch. Sci. phys. nat.	Archives des Sciences physique et naturelles.
Agrie. Live Stock India	Agriculture and Live Stock in India.	Arch. Suikerind. Ned.-Indië	Archief voor de Suikerindustrie in Nederlandsch-Indië.
Agrie. Res. Inst., Pusa, Rep. (Bull.)	Agricultural Research Institute, Pusa, Reports and Bulletins.	Arch. Hemiju	Arhiv za Hemiju i Farmaciju.
Allgem. Ocl.-Fett-Ztg.	Allgemeine Oel- und Fett-Zeitung.	Arkiv Kemi, Min., Geol.	Arkiv för Kemi, Mineralogi och Geologi.
Allgem. Z. Bierbrau.	Allgemeine Zeitschrift für Bierbrauerei und Malzfabrikation.	Astrophys. J.	Astrophysics Journal.
Amer. J. Bot.	American Journal of Botany.	Atti R. Accad. Lincei	Atti della Reale Accademia Nazionale dei Lincei.
Amer. J. Dis. Children	American Journal of Diseases of Children.	Atti R. Accad. Sci. Torino	Atti della Reale Accademia delle Scienze di Torino.
Amer. J. Pharm.	American Journal of Pharmacy.	Austral. J. Exp. Biol.	Australian Journal of Experimental Biology and Medicine.
Amer. J. Physiol.	American Journal of Physiology.	B.P.	British Patent.
Amer. J. Publ. Health	American Journal of Public Health.	Ber.	Berichte der Deutschen chemischen Gesellschaft.
Amer. J. Sci.	American Journal of Science.	Ber. Deut. bot. Ges.	Berichte der Deutschen botanischen Gesellschaft.
Amer. Min.	American Mineralogist.	Ber. Ges. Kohlentech.	Berichte der Gesellschaft für Kohlentechnik.
Amer. Paint. & Var. Manuf. Assoc. Ciro.	American Paint and Varnish Manufacturers' Association Circulars.	Ber. Ohara Inst. landw. Forsch.	Berichte des Ohara Instituts für landwirtschaftliche Forschungen.
Anal. Asoc. Quím. Argentina	Anales de la Asociación Química Argentina.	Ber. Sächs. Akad. Wiss.	Berichte über die Verhandlungen der Sächsischen Akademie der Wissenschaften zu Leipzig.
Anal. Fís. Quím.	Anales de la Sociedad Española de Física y Química.	Berlin. Klin. Woch.	Berliner Klinische Wochenschrift.
Analyst	Analyst.	Bied. Zentr.	Biedermann's Zentralblatt.
Angew. Chem.	Angewandte Chemie (changed from Z. angew. Chem. in 1932).	Biochem. J.	Biochemical Journal.
Ann. Acad. Brasil Sci.	Annals da Academia Brasileira de Ciencias.	Biochem. Z.	Biochemische Zeitschrift.
Annalen	Justus Liebig's Annalen der Chemie.	Bol. Acad. Nac. Ciencias, Cordoba	Boletín de la Academia Nacional de Ciencias, Córdoba.
Ann. Bot.	Annals of Botany.	Boll. Chim. farm.	Bollettino Chimico farmaceutico.
Ann. di Bot.	Annali di Botanica.	Boll. Soc. Geol. Ital.	Bollettino della Società Geologica Italiana.
Annali Chim. Appl.	Annali di Chimica Applicata.	Boll. Soc. Med.-Chirurg.	Bollettino della Società Medico-Chirurgica, Pavia.
Ann. Chim.	Annales de Chimie.	Boll. Uff. Staz. Speriment. Ind. Essenze	Bollettino Ufficiale della R. Stazione Sperimentale per l'Industria delle Essenze e dei Derivati dagli Agrumi in Reggio Calabria.
Ann. Chim. Analyt.	Annales de Chimie Analytique et de Chimie Appliquée.	Boll. Uff. Staz. Speriment. Ind. Pelli	R. Stazione Sperimentale per l'Industria delle Pelli e delle materie concianti, Bollettino Ufficiale.
Ann. Falsif.	Annales des Falsifications.	Bot. Gaz.	Botanical Gazette.
Ann. Inst. Anal. Phys. Chim.	Annales de l'Institut d'Analyse Physico-chimique.	Brass. Malt.	Brasserie et Malterie.
Ann. Inst. Pasteur	Annales de l'Institut Pasteur.	Brau- u. Malzind.	Brau- u. Malzindustrie.
Ann. Inst. Platine	Annales de l'Institut du Platine et des Autres Métaux Précieux.	Braunkohle	Braunkohle.
Ann. Physik	Annales der Physik.	Brennstoff-Chem.	Brennstoff-Chemie.
Ann. Physique	Annales de Physique.	Brewers' J.	Brewers' Journal.
Ann. R. Staz. Chim. Agrar. Sperim.	Annali della R. Stazione Chimico Agraria Sperimentale di Roma.	Brit. J. Phot.	British Journal of Photography.
Ann. Soc. Sci. Bruxelles	Annales de la Société Scientifique de Bruxelles.	Brit. J. Phys. Med.	British Journal of Physical Medicine.
Ann. sci. Univ. Jassy	Annales scientifiques de l'Université de Jassy.	Brit. Med. J.	British Medical Journal.
Apoth.-Ztg.	Apotheker-Zeitung.	Buletinul Chim.	Buletinul Chimie.
Arb. Gebiet. Physik, Math., Chem.	Arbeiten aus dem Gebiete der Physik, Mathematik und Chemie.	Bul. Chim. Soc. Române	Buletinul de Chimie pură și aplicată al Societății Române de Chimie.
Arch. Eisenhüttenw.	Archiv. für das Eisenhüttenwesen.	Bul. Soc. Române Stiin.	Buletinul Societății Române de Științe.
Arch. exp. Path. Pharm.	Archiv für experimentelle Pathologie und Pharmakologie.	Bull. Acad. Polonaise	Bulletin Internationale de l'Académie Polonaise des Sciences et des Lettres.
Arch. Farm. sperim. Sci. aff.	Archivio di Farmacologia sperimentale e Scienze affini.	Bull. Acad. roy. Belg.	Académie royale de Belgique— Bulletin de la Classe des Sciences.
Arch. Int. Med.	Archives of Internal Medicine.		
Arch. Med. Pharm. milit.	Archives de Médecine et de Pharmacologie militaires.		
Arch. Min. Soc. Sci. Varsovie	Archives de Minéralogie de la Société des Sciences de Varsovie (Archivum Mineralogiczne Towarzystwa Naukowego Warszawskiego).		
Arch. Néerland.	Archives Néerlandaises de sciences exactes et naturelles.		

ABBREVIATED TITLE.	JOURNAL.	ABBREVIATED TITLE.	JOURNAL.
Bull. Acad. Sci. U.R.S.S.	Bulletin de l'Académie des Sciences de l'Union des Républiques Soviétiques Socialistes.	Collegium	Collegium.
Bull. Acad. Sci. Roumaine.	Bulletin de la Section Scientifique de l'Académie Roumaine.	Compt. rend.	Comptes rendus hebdomadaires des Séances de l'Académie des Sciences.
Bull. Assoc. Chim. Sucr.	Bulletin de l'Association des Chimistes du Sucré et de Distillerie.	Compt. rend. Soc. Biol.	Comptes rendus hebdomadaires de Biologie.
Bull. Chem. Soc. Japan.	Bulletin of the Chemical Society of Japan.	Compt. rend. Trav. Lab. Carlsberg	Comptes rendus des Travaux du Laboratoire Carlsberg.
Bull. Entomol. Res.	Bulletin of Entomological Research.	Dansk Tidsskr. Farm.	Dansk Tidsskrift for Farmaci.
Bull. Forest Exp. Stat. Meguro	Bulletin of the Forest Experiment Station, Meguro, Tokyo.	Dept. Chem. S. Australia, Bull.	Department of Chemistry, South Australia, Bulletins.
Bull. Geol. Survey, U.S.A.	Bulletin of the U.S. Geological Survey.	Deut. med. Woch.	Deutsche medizinische Wochenschrift.
Bull. Imp. Inst.	Bulletin of the Imperial Institute.	Ecology	Ecology.
Bull. Inst. Min. Met.	Bulletin of the Institution of Mining and Metallurgy.	Econ. Geol.	Economic Geology.
Bull. Inst. Phys. Chem. Res., Japan	Bulletin of the Institute of Physical and Chemical Research, Japan (Rikagaku Kenkyojo Ihō).	Econ. Proc. Roy. Dublin Soc.	Economic Proceedings of the Royal Dublin Society.
Bull. Inst. Pin	Bulletin de l'Institut du Pin.	Engineering	Engineering.
Bull. Johns Hopkins Hosp.	Bulletin of the Johns Hopkins Hospital.	Eng. and Min. J.	Engineering and Mining Journal.
Bull. Math. Phys. Bucarest	Bulletin de Mathématiques et de Physique pure et appliquées de l'Ecole Polytechnique "Roi Carol II" Bucarest.	Eng. News-Rec.	Engineering News-Record.
Bull. Mat. Grasses	Bulletin des Matières Grasses.	F.P.	French Patent.
Bull. School Mines and Met., Univ. Missouri	Bulletin of the School of Mines and Metallurgy, University of Missouri.	Farbo u. Lack.	Farbe und Lack.
Bull. Sci. Pharmacol.	Bulletin des Sciences Pharmacologiques.	Farbon-Chem.	Farben-Chemiker.
Bull. Sericul., Japan	Bulletin of Sericulture and Silk Industry, Japan.	Farbon-Ztg.	Farben-Zeitung.
Bull. Soc. chim.	Bulletin de la Société chimique de France.	Fermentforsch.	Fermentforschung.
Bull. Soc. chim. Belg.	Bulletin de la Société chimique de Belgique.	Feuerfest.	Feuerfest.
Bull. Soc. Chim. biol.	Bulletin de la Société de Chimie biologique.	Feuerungstechnik.	Feuerungstechnik.
Bull. Soc. d'Encour.	Bulletin de la Société d'Encouragement pour l'Industrie Nationale.	Food Tech.	Food Technology.
Bull. Soc. Franç. Phot.	Bulletin de la Société Française de Photographic.	Food Manuf.	Food Manufacture.
Bull. Soc. Ind. Mulhouse	Bulletin de la Société Industrielle de Mulhouse.	Fuel	Fuel in Science and Practice.
Bur. Stand. J. Res.	Bureau of Standards Journal of Research.	Fuel Econ.	Fuel Economist.
Canada Dept. Mines	Canada Department of Mines Publications.	Fuel Econ. Rev.	Fuel Economy Review.
Canad. Chem. Met.	Canadian Chemistry and Metallurgy.	G.P.	German Patent.
Canad. J. Res.	Canadian Journal of Research.	Gas J.	Gas Journal.
Caoutchouc et Gutta-Percha	Le Caoutchouc et le Gutta-Percha.	Gas- u. Wasserfach	Gas- und Wasserfach.
Cellulosechem.	Cellulosechemie.	Gas World	Gas World.
Cement	Cement and Cement Manufacture.	Gazzetta	Gazzetta chimica italiana.
Cereal Chem.	Cereal Chemistry.	Geol. Mag.	Geological Magazine.
Chem. Age	Chemical Age.	Giorn. Chim. Ind. Appl.	Giornale di Chimica Industriale ed Applicata.
Chem. App.	Chemische Apparatur.	Gummi-Ztg.	Gummi-Zeitung.
Chem. Eng. Min. Rev.	Chemical Engineering and Mining Review.	Hawaii Agric. Exp. Stat. Bull.	Hawaii Agricultural Experiment Station Bulletins.
Chem. Erde	Chemie der Erde.	Helv. Chim. Acta	Helvatica Chimica Acta.
Chem. Fabr.	Die Chemische Fabrik.	Indian J. Agric. Sci.	Indian Journal of Agricultural Science.
Chem. and Ind.	Chemistry and Industry.	Indian J. Med. Res.	Indian Journal of Medical Research.
Chem. Ind.	Chemische Industrie.	India-rubber J.	India-rubber Journal.
Chem. Listy	Chemické Listy pro Vědu a Průmysl. Organ de la "Ceská chemická Společnost pro Vědu a Průmysl."	Ind. Chem.	Industrial Chemist.
Chem. and Met. Eng.	Chemical and Metallurgical Engineering.	Ind. Eng. Chem.	Industrial and Engineering Chemistry.
Chem. News	Chemical News.	Int. Rev. Agric.	International Review of Agriculture.
Chem. Trade J.	Chemical Trade Journal.	Int. Sugar J.	International Sugar Journal.
Chem. Umschau	Chemische Umschau auf dem Gebiete der Fette, Öle, Wachse, und Harze.	Iron Steel Inst. Carnegie Schol. Mem.	Iron and Steel Institute, Carnegie Scholarship Memoirs.
Chem. Weekblad	Chemisch Weekblad.	Izvestia Teplotecheskogo Inst. (Moscow)	Izvestia Teplotechnicheskogo Instituta (Moscow).
Chem.-Ztg.	Chemiker-Zeitung.	J.C.S.	Journal of the Chemical Society.
Chem. Zentr.	Chemisches Zentralblatt.	Jahrb. geol. Reichsanst.	Jahrbuch der geologischen Reichsanstalt.
Chim. et Ind.	Chimie et Industrie.	Jahrb. Min.	Neues Jahrbuch für Mineralogie, Geologie und Paläontologie.
Chinese J. Physiol.	Chinese Journal of Physiology.	Jahrb. Min. Beil.-Bd.	Neues Jahrbuch für Mineralogie, Geologie und Palaeontologie, Beilage-Band.
Coll. Czech. Chem. Comm.	Collection of Czechoslovak Chemical Communications.	Jahrb. Radioaktiv.	Jahrbuch der Radioaktivität und Elektronik.
		Jahrb. wiss. Bot.	Jahrbuch für wissenschaftliche Botanik.
		Jahresber. Ges. vaterl. Kultur	Jahresbericht der schlesischen Gesellschaft für vaterländische Kultur.
		Japan. J. Med. Sci.	Japanese Journal of Medical Sciences.
		Japan. J. Phys.	Japanese Journal of Physics.
		Jernk. Ann.	Jernkontorets Annaler.
		J. Agric. Res.	Journal of Agricultural Research.
		J. Agric. Sci.	Journal of Agricultural Science.
		J. Amer. Ceram. Soc.	Journal of the American Ceramic Society.
		J. Amer. Chem. Soc.	Journal of the American Chemical Society.
		J. Amer. Leather Chem. Assoc.	Journal of the American Leather Chemists' Association.
		J. Amer. Med. Assoc.	Journal of the American Medical Association.
		J. Amer. Pharm. Assoc.	Journal of the American Pharmaceutical Association.

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J. Amer. Soc. Agron.	Journal of the American Society of Agronomy.	J. Res. Assoc. Brit. Rubber Manufrs.	Journal of the Research Association of British Rubber Manufacturers.
J. Appl. Chem. Russia	Journal of Applied Chemistry, Russia.	J. Rheology	Journal of Rheology.
J. Assoc. Off. Agric. Chem.	Journal of the Association of Official Agricultural Chemists.	J. Roy. Agric. Soc.	Journal of the Royal Agricultural Society.
J. Bact.	Journal of Bacteriology.	J. Roy. Hort. Soc.	Journal of the Royal Horticultural Society.
J. Biochem. Japan	Journal of Biochemistry, Japan.	J. Roy. Soc. West Australia	Journal of the Royal Society of West Australia.
J. Biol. Chem.	Journal of Biological Chemistry.	J. Roy. Tech. Coll.	Journal of the Royal Technical College (Glasgow).
J. Canad. Min. Inst.	Journal of the Canadian Mining Institute.	J. Sci. Instr.	Journal of Scientific Instruments.
J. Cell. Comp. Physiol.	Journal of Cellular and Comparative Physiology.	J. Scot. Met. Soc.	Journal of the Scottish Meteorological Society.
J. Cellulose Inst. Tokyo	Cellulose Industry, Journal of the Cellulose Institute, Tokyo.	J. Soc. Arts	Journal of the Royal Society of Arts.
J. Chem. Ind. Russ.	Journal of Chemical Industry, Russia.	J.S.C.I.	Journal of the Society of Chemical Industry.
J. Chem. Met. Soc. S. Africa	Journal of the Chemical, Metallurgical, and Mining Society of South Africa.	J. Soc. Chem. Ind. Japan	Journal of the Society of Chemical Industry, Japan. (Kōgyō Kwigaku Zasshi.)
J. Chem. Soc. Japan	Journal of the Chemical Society of Japan. (Nippon Kwigaku Kwai Shi.)	J. Soc. Dyers and Col.	Journal of the Society of Dyers and Colourists.
J. Chim. phys.	Journal de Chimie physique.	J. Soc. Glass Tech.	Journal of the Society of Glass Technology.
J. Coll. Agric. Hokkaido	Journal of the College of Agriculture, Hokkaido Imperial University, Japan.	J. Soc. Leather Trades' Chem.	Journal of the International Society of Leather Trades' Chemists.
J. Coll. Agric. Tokyo	Journal of the College of Agriculture, Imperial University of Tokyo, Japan.	J. S. African Chem. Inst.	Journal of the South African Chemical Institute.
J. Coll. Eng. Tokyo	Journal of the College of Engineering, Imperial University of Tokyo.	J. State Med.	Journal of State Medicine.
J. Coll. Sci. Tokyo	Journal of the College of Science, Imperial University of Tokyo.	J. Textile Inst.	Journal of the Textile Institute.
J. Econ. Entomol.	Journal of Economic Entomology.	J. Usines Gaz	Journal des Usines à Gaz.
J. Egypt. Med. Assoc.	Journal of the Egyptian Medical Association.	J. Washington Acad. Sci.	Journal of the Washington Academy of Sciences.
J. Exp. Med.	Journal of Experimental Medicine.	J. West Scotland Iron Steel Inst.	Journal of the West of Scotland Iron and Steel Institute.
J. Franklin Inst.	Journal of the Franklin Institute.	Kali	Kali.
J. Fuel Soc. Japan	Journal of the Fuel Society of Japan.	Kautschuk	Kautschuk.
J. Gen. Chem. Russ.	Journal of General Chemistry, Russia (formerly J. Russ. Phys. Chem. Soc.).	Keijo J. Med.	Keijo Journal of Medicine.
J. Gen. Physiol.	Journal of General Physiology.	K. Svenska Vet. Akad. Handl.	Kongliga Svenska Vetenskaps Akademiens Handlingar.
J. Geol.	Journal of Geology.	Kentucky Exp. Stat. Bull.	Kentucky Experimental Station, Bulletin.
J. Geol. Soc. Tokyo	Chishitsugaku Zasshi (Journal of the Geological Society of Tokyo).	Keram. Rundsch.	Keramisch Rundschau.
J. Hygiene	Journal of Hygiene.	Kolloid-Beih.	Kolloid-Beihefte.
J. Indian Chem. Soc.	Journal of the Indian Chemical Society.	Kolloid-Z.	Kolloid-Zeitschrift.
J. Indian Inst. Sci.	Journal of the Indian Institute of Science	Kunststoffe	Kunststoffe.
J. Ind. Hyg.	Journal of Industrial Hygiene.	Lancet	The Lancet.
J. Inst. Brew.	Journal of the Institute of Brewing.	Landw. Jahrb.	Landwirtschaftliche Jahrbücher.
J. Inst. Fuel.	Journal of the Institute of Fuel.	Landw. Versuchs-Stat.	Die landwirtschaftlichen Versuchsstationen.
J. Inst. Metals.	Journal of the Institute of Metals.	Latvij. Univ. Raksti	Latvijas Universitātes Raksti, Kimijas Fakultātes Serija.
J. Inst. Petroleum Tech.	Journal of the Institution of Petroleum Technologists.	L'Ind. Chimica	L'Industria Chimica.
J. Iron and Steel Inst.	Journal of the Iron and Steel Institute.	Louisiana Planter	Louisiana Planter.
J. Jap. Ceram. Assoc.	Journal of the Japanese Ceramic Association.	Malay. Agric. J.	Malayan Agricultural Journal.
J. Landw.	Journal für Landwirtschaft.	Medd. K. Vetenskaps-akad. Nobel-Inst.	Meddelanden från Kongl. Vetenskaps-akademien Nobel-Institut.
J. Marine Biol. Assoc.	Journal of the Marine Biological Association of the United Kingdom.	Medd. on Grönland	Meddelser on Grönland.
J. Med. Res.	Journal of Medical Research.	Med. Genes. Lab.	Mededelingen uit het Geneskundig Laboratorium te Weltevreden.
J. Min. Agric.	Journal of the Ministry of Agriculture.	Med. Doświad.	Medycyna Doświadczalna i Społeczna.
J. Oil Col. Chem. Assoc.	Journal of the Oil and Colour Chemists' Association.	Melliand Text. Month.	Melliand Textile Monthly.
J. Opt. Soc. Amer.	Journal of the Optical Society of America.	Mem. Accad. Lincei	Memorie della Reale Accademia dei Lincei.
J. Path. Bact.	Journal of Pathology and Bacteriology.	Mem. Accad. Sci. Torino	Memorie della Reale Accademia delle Scienze di Torino.
J. Pharm. Chim.	Journal de Pharmacie et de Chimie.	Mem. Coll. Agric. Kyoto	Memoirs of the College of Agriculture, Kyoto Imperial University.
J. Pharm. Exp. Ther.	Journal of Pharmacology and Experimental Therapeutics.	Mem. Coll. Sci. Kyoto	Memoirs of the College of Science, Kyoto Imperial University.
J. Pharm. Soc. Japan	Journal of the Pharmaceutical Society of Japan. (Yakugakuzasshi.)	Mem. Dept. Agric. India	Memoirs of the Department of Agriculture in India.
J. Physical Chem.	Journal of Physical Chemistry.	Mem. Manchester Phil. Soc.	Memoirs and Proceedings of the Manchester Literary and Philosophical Society.
J. Physiol.	Journal of Physiology.	Mém. Poudres	Mémorial des Poudres.
J. Physiol. Path. gén.	Journal de Physiologie et de Pathologie générale.	Metall u. Erz	Metall und Erz.
J. Phys. Radium	Journal de Physique et le Radium.	Metallurgia	Metallurgia.
J. Pomology	Journal of Pomology and Horticultural Science.	Met. & Alloys	Metals and Alloys.
J. pr. Chem.	Journal für praktische Chemie.	Metrop. Water Bd.	Metropolitan Water Board Reports.
J. Proc. Asiatic Soc. Bengal	Journal and Proceedings of the Asiatic Society of Bengal.	Milch. Forsch.	Milchwirtschaftliches Forschungen.
J. Proc. Roy. Soc. New South Wales	Journal and Proceedings of the Royal Society of New South Wales.		

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Milch. Zentr. . .	Milchwirtschaftliches Zentralblatt.	Proc. Amer. Soc. Testing Materials .	Proceedings of the American Society for Testing Materials.
Min. Mag. . .	Mineralogical Magazine and Journal of the Mineralogical Society.	Proc. Austral. Inst. Min. Mot.	Proceedings of the Australasian Institute of Mining and Metallurgy.
Min. & Met. . .	Mining and Metallurgy.	Proc. Camb. Phil. Soc.	Proceedings of the Cambridge Philosophical Society.
Mitt. Materialprüf. . .	Mitteilungen aus dem Materialprüfungsamt zu Gross-Lichterfelde West.	Proc. Durham Phil. Soc.	Proceedings of the University of Durham Philosophical Society.
Mitt. med. Ges. Tokyo	Mitteilungen der medizinischen Gesellschaft zu Tokyo.	Proc. Eng. Soc. W. Pa.	Proceedings of the Engineers' Society of Western Pennsylvania.
Mitt. Naturforsch. Ges. Halle	Mitteilungen der Naturforschenden Gesellschaft zu Halle.	Proc. Imp. Acad. Tokyo	Proceedings of the Imperial Academy (Tokyo).
Mitt. Path. Inst. K. Univ. Japan	Mitteilungen aus dem pathologischen Institut der Kaiserlichen Universität zu Sendai, Japan.	Proc. Inst. Civ. Eng..	Proceedings of the Institution of Civil Engineers.
Monatsh. . .	Monatshefte für Chemie und verwandte Teile anderer Wissenschaften.	Proc. Inst. Moch. Eng.	Proceedings of the Institution of Mechanical Engineers.
Month. Not. Roy. Astr. Soc.	Monthly Notices of the Royal Astronomical Society, London.	Proc. K. Akad. Wetensch. Amsterdam	Koninklijke Akademie van Wetenschappen te Amsterdam. Proceedings (English version).
Mühlenlab. . .	Das Mühlenlaboratorium.	Proc. Nat. Acad. Sci..	Proceedings of the National Academy of Sciences.
Münch. med. Woch.	Münchener medizinische Wochenschrift.	Proc. Nova Scotian Inst. Sci.	Proceedings of the Nova Scotian Institute of Science.
Nachr. Ges. Wiss. Göttingen . .	Nachrichten von der Gesellschaft der Wissenschaften zu Göttingen.	Proc. Phil. Soc. Glasgow	Proceedings of the Glasgow Philosophical Society.
Nature . .	Nature.	Proc. Physical Soc. .	Proceedings of the Physical Society of London.
Naturwetensch. Tijds.	Naturwetenschappelijk Tijdschrift.	Proc. Physiol. Soc. .	Proceedings of the Physiological Society.
Naturwiss. . .	Die Naturwissenschaften.	Proc. Roy. Inst. .	Proceedings of the Royal Institution of Great Britain.
Naturw. Rdsch.	Naturwissenschaftliche Rundschau.	Proc. Roy. Irish Acad.	Proceedings of the Royal Irish Academy.
Now York Agr. Expt. Sta. Bull.	Now York Agricultural Experiment Station Bulletins.	Proc. Roy. Soc. .	Proceedings of the Royal Society.
New Zealand Dominion Laby. Rept.	New Zealand Dominion Laboratory Reports.	Proc. Roy. Soc. Edin.	Proceedings of the Royal Society of Edinburgh.
New Zealand J. Sci. Tech. . .	New Zealand Journal of Science and Technology.	Proc. Roy. Soc. Med..	Proceedings of the Royal Society of Medicine.
Nova Acta Soc. Sci. .	Nova Acta Regiae Societatis Scientiarum Upsaliensis.	Proc. Roy. Soc. Queensland	Proceedings of the Royal Society of Queensland.
Öfvers. Finska Vet. Soc.	Öfversigt af Finska Vetenskaps-Societéts Förhandlingar, Helsingfors.	Proc. Roy. Soc. Tasmania	Proceedings of the Royal Society of Tasmania.
Oesterr. Chem.-Ztg. .	Oesterrichische Chemiker-Zeitung.	Proc. Sci. Assoc., Vizianagram	Proceedings of the Science Association, Maharajah's College, Vizianagram.
Oil and Fat Ind. .	Oil and Fat Industries (title changed to Soap in 1932).	Proc. Soc. Exp. Biol. Med.	Proceedings of the Society for Experimental Biology and Medicine.
Oversigt Danske Vid. Selsk.	Oversigt over det Kongelige Danske Videnskabernes Selskabs Forhandlinger.	Proc. S. Wales Inst. Eng.	Proceedings of the South Wales Institute of Engineers.
Paper . .	Paper.	Proc. Tech. Sect. Paper Makers' Assoc.	Proceedings of the Technical Section of the Paper Makers' Association of Great Britain and Ireland.
Paper-Maker . .	Paper-Maker and British Paper Trade Journal.	Proc. U.S. Nat. Mus. .	Proceedings of the United States National Museum.
Paper Trade J. .	Paper Trade Journal.	Przemysl Chem.	Przemysl Chemiczny.
Papier-Fabr. .	Papier-Fabrikant.	Publ. Fac. Sci. Univ. Masaryk.	Publications de la Faculté des Sciences de l'Université Masaryk (Spisy vydávané Prírodovědeckou Facultou Masarykovy University).
Peint., Pig., Ver.	Peinture, Pigment, Vernis.	Pulp and Paper Canada.	Pulp and Paper of Canada.
Perf. & Essent. Oil Rec.	Perfumery and Essential Oil Record.	Quart. J. Geol. Soc. .	Quarterly Journal of the Geological Society.
Petroleum . .	Petroleum (German).	Quart. J. Med. .	Quarterly Journal of Medicine.
Pflüger's Archiv .	Archiv für die gesamte Physiologie des Menschen und der Tiere.	Quart. J. Pharm. .	Quarterly Journal of Pharmacy and Pharmacology.
Pharm. J. .	Pharmaceutical Journal.	Rec. Australian Mus.	Records of the Australian Museum.
Pharm. Weekblad .	Pharmaceutisch Weekblad.	Rec. trav. bot. Néerland.	Recueil des travaux botaniques Néerlandaises.
Pharm. Ztg. .	Pharmazeutische Zeitung.	Rec. trav. chim. .	Recueil des travaux chimiques des Pays-Bas.
Pharm. Zentr. .	Pharmazeutische Zentralhalle.	Rend. Accad. Sci. Fis. Mat. Napoli	Rendiconto dell' Accademia delle Scienze Fisiche e Matematiche, Napoli.
Philippine J. Sci.	Philippine Journal of Science.	Rend. Ist. Lomb. Sci. Lett.	Rendiconto dell' Reale Istituto Lombardo di Scienze e Lettere.
Phil. Mag. .	Philosophical Magazine (The London, Edinburgh, and Dublin).	Rep. Aust. Assoc. Sci.	Report of the Australian Association for the Advancement of Science.
Phil. Trans. .	Philosophical Transactions of the Royal Society of London.	Rep. Brit. Assoc. .	Report of the British Association for the Advancement of Science.
Phot. J. .	Photographic Journal.	Rev. Aluminium .	Revue de l'Aluminium.
Phot. Korr. .	Photographische Korrespondenz.	Rev. Gén. Mat. Col. .	Revue Générale des Matières Colorantes.
Physica . .	Physica.	Rev. Mét. .	Revue de Métallurgie.
Physical Rev.	Physical Review.		
Physikal. Z. .	Physikalische Zeitschrift.		
Phytopath.	Phytopathology.		
Planta (Z. wiss. Biol.)	Planta (Zeitschrift für wissenschaftliche Biologie).		
Plast. Massi . .	Plastitschke Massi.		
Proc. Amer. Acad. Arts Sci.	Proceedings of the American Academy of Arts and Sciences.		
Proc. Amer. Phil. Soc.	Proceedings of the American Philosophical Society.		
Proc. Amer. Physiol. Soc.	Proceedings of the American Physiological Society.		
Proc. Amer. Soc. Biol. Chem.	Proceedings of the American Society of Biological Chemists.		
Proc. Amer. Soc. Civ. Eng.	Proceedings of the American Society of Civil Engineers.		

ABBREVIATED TITLE.	JOURNAL.	ABBREVIATED TITLE.	JOURNAL.
Rev. Sci. Instr.	Review of Scientific Instruments.	Tsch. Min. Mitt.	Tschermark's Mineralogische Mitteilungen.
Rocz. Chem.	Roczniki Chemji organ Polskiego Towarzystwa Chemicznego.	U.S. Bur. Mines, Bull.	United States Bureau of Mincs, Bulletins and Technical Papers.
Schweiz. Chem.-Ztg.	Schweizerische Chemiker-Zeitung.	U.S. Bur. Plant Ind.	United States Bureau of Plant Industry.
Science	Science.	U.S. Dept. Agric. Bull.	United States Department of Agriculture Bulletins.
Sci. Agric.	Scientific Agriculture.	U.S. Hyg. Labor. Bull.	United States Hygienic Laboratory Bulletins.
Sci. Ind. Rep. Roure-Bertrand Fils	Scientific and Industrial Reports of Roure-Bertrand Fils.	U.S.P.	United States Patent.
Sci. Papers Inst. Phys. Chem. Res. Tokyo	Scientific Papers of the Institute of Physical and Chemical Research, Tokyo.	Ukraine Chem. J.	Ukraine Chemical Journal.
Sci. Proc. Roy. Dublin Soc.	Scientific Proceedings of the Royal Dublin Society.	Univ. Illinois Bull.	University of Illinois Bulletins.
Sci. Rep. Tōhoku	Science Reports, Tōhoku Imperial University.	Utah Agric. Coll. Exp. Stat. Bull.	Utah Agricultural College Experiment Station Bulletins.
Sci. Rep. Tokyo Bunrika Daigaku.	Science Reports of the Tokyo Bunrika Daigaku.	Verh. Geol. Reichsanst. Wien	Verhandlungen der Geologischen Reichsanstalt in Wien.
Sci. Rep. Tsing Hua Univ.	Science Reports of the National Tsing Hua University.	Verh. Ges. deut. Naturforsch. Aertze	Verhandlungen der Gesellschaft deutscher Naturforscher und Aertze.
Sci. Trans. Roy. Dubl. Soc.	Scientific Transactions of the Royal Dublin Society.	Wiss. Veröff. Siemens-Konz.	Wissenschaftliche Veröffentlichungen aus dem Siemens-Konzern.
Scot. J. Agric.	Scottish Journal of Agriculture.	Woch. Brau.	Wochenschrift für Brauerei.
Sewage Works' J.	Sewage Works' Journal.	Z. anal. Chem.	Zeitschrift für analytische Chemie.
Sitzungsber. Akad. Wiss. Wien	Sitzungsberichte der Akademie der Wissenschaften, Wien.	Z. angew. Chem.	Zeitschrift für angewandte Chemie (title changed to Angewandte Chemie in 1932)
Sitzungsber. Heidelberg. Akad. Wiss.	Sitzungsberichte der Heidelberg Akademie der Wissenschaften.	Z. anorg. Chem.	Zeitschrift für anorganische und allgemeine Chemie.
Sitzungsber. Preuss. Akad. Wiss. Berlin	Sitzungsberichte der Preussischen Akademie der Wissenschaften zu Berlin.	Z. Biol.	Zeitschrift für Biologie.
Soap.	Soap.	Z. deut. bot. Ges.	Zeitschrift der deutschen botanischen Gesellschaft.
Soil Sci.	Soil Science.	Z. deut. Geol. Ges.	Zeitschrift der deutschen Geologischen Gesellschaft.
Sprechsaal	Sprechsaal.	Z. Elektrochem.	Zeitschrift für Elektrochemie.
Stahl u. Eisen	Stahl und Eisen.	Z. exp. Path. Ther.	Zeitschrift für experimentelle Pathologie und Therapie.
Stain Tech.	Stain Technology.	Z. ges. Brauw.	Zeitschrift für das gesamte Brauwesen.
Staz. sper. agr. ital.	Stazioni sperimentalni agrarie italiane.	Z. ges. exp. Med.	Zeitschrift für die gesamte experimentelle Medizin.
Suomen Kem.	Suomen Kemistilehti Acta Chemica Fennica.	Z. ges. Schiess- Sprengstoffw.	Zeitschrift für das gesamte Schiess- und Sprengstoffwesen.
Superphosphat.	Superphosphat.	Z. Hyg.	Zeitschrift für Hygiene und Infektionskrankheiten.
Svensk Kem. Tidskr.	Svensk Kemisk Tidskrift.	Z. Instrument.	Zeitschrift für Instrumentenkunde.
Tech. Rep. Tōhoku	Technology Reports of the Tōhoku Imperial University, Sendai, Japan.	Z. Krist.	Zeitschrift für Kristallographie.
Tekn. Tidskr.	Teknisk Tidskrift.	Z. Metallk.	Zeitschrift für Metallkunde.
Textilber.	Melland's Textilberichte über Wissenschaft, Industrie und Handel.	Z. Pflanz. Düng.	Zeitschrift für Pflanzernährung, Düngung, und Bodenkunde.
Tids. Kjemi.	Tidsskrift for Kjemi og Bergvesen.	Z. Physik	Zeitschrift für Physik.
Tonind.-Ztg.	Tonindustrie-Zeitung.	Z. physikal. Chem.	Zeitschrift für physikalische Chemie.
Trans. Amer. Inst. Chem. Eng.	Transactions of the American Institute of Chemical Engineers.	Z. physikal. chem. Unterr.	Zeitschrift für den physikalischen und chemischen Unterricht.
Trans. Amer. Inst. Metals	Transactions of the American Institution of Metals.	Z. physiol. Chem.	Hoppe-Seyler's Zeitschrift für physiologische Chemie.
Trans. Amer. Inst. Min. Eng.	Transactions of the American Institute of Mining Engineers.	Z. prakt. Geol.	Zeitschrift für praktische Geologie.
Trans. Ceram. Soc.	Transactions of the Ceramic Society.	Z. Sauerstoff Stickstoff Ind.	Zeitschrift für Sauerstoff und Stickstoff Industrie.
Trans. Electrochom. Soc.	Transactions of the Electrochemical Society.	Z. Spiritusind.	Zeitschrift für Spiritusindustrie.
Trans. Faraday Soc.	Transactions of the Faraday Society.	Z. Unters. Lebensmittel.	Zeitschrift für Untersuchung der Lebensmittel.
Trans. Inst. Min. and Met.	Transactions of the Institution of Mining and Metallurgy.	Z. Ver. deut. Zucker-Ind.	Zeitschrift des Vereins der deutschen Zucker-Industrie.
Trans. Inst. Rubber Ind.	Transactions of the Institution of the Rubber Industry.	Z. Vitaminforsch.	Zeitschrift für Vitaminforschung.
Trans. N. Eng. Inst. Min. and Met.	Transactions of the North of England Institute of Mining and Metallurgy.	Z. wiss. Mikrosk.	Zeitschrift für wissenschaftliche Mikroskopie und mikroskopische Technik.
Trans. New Zealand Inst.	Transactions of the New Zealand Institute.	Z. wiss. Phot.	Zeitschrift für wissenschaftliche Photographic, Photophysik und Photchemie.
Trans. Nova Scotia Inst. Sci.	Transactions of the Nova Scotia Institute of Science.	Z. Zuckerind. Czecho-slov.	Zeitschrift für die Zuckerindustrie der Čechoslovakischen Republik.
Trans. Opt. Soc.	Transactions of the Optical Society.	Zellstoff u. Papier	Zellstoff und Papier.
Trans. Roy. Irish Acad.	Transactions of the Royal Irish Academy.	Zentr. Bakt.	Zentralblatt für Bakteriologie, Parasitenkunde und Infektionskrankheiten.
Trans. Roy. Soc. Canada	Transactions of the Royal Society of Canada.	Zentr. Min.	Zentralblatt für Mineralogie, Geologie und Paläontologie.
Trans. Roy. Soc. of Edinburgh.	Transactions of the Royal Society of Edinburgh.	Zentr. Zuckerind.	Zentralblatt für Zuckerindustrie.
Trans. Roy. Soc. S. Africa.	Transactions of the Royal Society of South Africa.		
Trop. Agric.	Tropical Agriculturist.		

List of Patents Abstracted.

BRITISH PATENTS.

No. of Patent.	Page. B.												
290,868	707	356,166	95	357,971	18	358,668	11	359,282	132	359,675	30	360,053	222
324,578	129	356,189	151	357,985	130	358,682	4	359,286	198	359,680	21	360,070	146
327,464	114	356,189	95	357,986	130	358,684	5	359,291	11	359,681	10	360,071	69
338,410	5	356,192	128	358,032	130	358,703	174	359,292	21	359,704	77	360,074	49
349,102	44	356,218	95	358,033	179	358,715	33	359,300	68	359,722	11	360,075	118
349,956	57	356,303	461	358,048	19	358,721	172	359,313	131	359,727	221	360,081	62
349,956	173	356,408	95	358,055	176	358,760	111	359,318	174	359,728	47	360,088	62
350,936	834	356,508	118	358,056	138	358,761	31	359,320	133	359,739	5	360,102	253
351,385	184	356,550	120	358,063	67	358,794	68	359,321	132	359,744	225	360,106	53
351,331	182	356,600	94	358,066	130	358,803	17	359,324	24	359,749	28	360,109	81
351,636	182	356,003	95	358,068	172	358,831	172	359,326	67	359,753	222	360,115	80
351,680	184	356,006	95	358,074	175	358,837	76	359,328	198	359,755	54	360,116	80
351,689	183	356,609	95	358,078	175	358,852	174	359,330	8	359,756	77	360,124	254
351,690	184	356,703	42	358,096	25	358,856	35	359,343	28	359,757	49	360,125	132
352,829	476	356,716	96	358,113	161	358,868	68	359,348	174	359,758	24	360,126	231
353,819	482	356,728	95	358,114	138	358,869	172	359,365	119	359,763	3	360,127	133
353,861	152	356,731	94	358,133	35	358,872	28	359,368	21	359,772	221	360,133	72
353,863	14	356,741	94	358,136	176	358,877	33	359,369	132	359,773	198	360,135	107
353,880	14	356,752	90	358,142	26	358,882	152	359,378	21	359,784	34	360,136	75
354,196	13	356,787	94	358,146	140	358,886	68	359,385	17	359,791	47	360,140	82
354,198	12	356,805	90	358,186	138	358,898	118	359,387	31	359,793	118	360,141	54
354,199	12	356,931	95	358,202	138	358,903	173	359,389	112	359,795	17	360,142	154
354,201	13	357,017	5	358,230	138	358,926	8	359,390	225	359,801	24	360,147	75
354,217	13	357,060	96	358,278	138	358,927	132	359,394	68	359,802	19	360,148	55
354,226	48	357,061	129	358,279	173	358,928	32	359,397	222	359,818	54	360,165	145
354,308	13	357,065	96	358,310	77	358,934	27	359,398	222	359,819	18	360,171	133
354,323	15	357,077	128	358,318	224	358,935	22	359,399	99	359,820	34	360,173	235
354,352	14	357,080	141	358,331	77	358,940	8	359,405	110	359,823	224	360,183	63
354,357	12	357,120	144	358,358	5	358,967	33	359,407	2	359,845	211	360,188	251
354,388	12	357,121	141	358,391	4	358,974	26	359,419	11	359,850	222	360,189	132
354,392	14	357,125	154	358,408	4	358,979	225	359,421	55	359,858	118	360,200	54
354,404	114	357,152	138	358,420	175	358,980	225	359,422	55	359,861	99	360,201	55
354,485	15	357,154	141	358,421	175	358,986	132	359,423	67	359,862	48	360,209	233
354,642	42	357,155	154	358,426	175	358,988	8	359,424	119	359,865	241	360,215	253
354,716	15	357,164	139	358,432	5	358,995	26	359,425	111	359,868	10	360,226	230
354,773	19	357,165	138	358,436	17	359,000	110	359,426	222	359,869	54	360,230	111
354,798	13	357,167	141	358,465	19	359,001	173	359,427	68	359,872	17	360,237	62
354,818	14	357,189	161	358,470	32	359,004	21	359,428	24	359,875	28	360,242	91
354,826	14	357,190	144	358,472	31	359,007	47	359,430	172	359,878	221	360,243	107
354,943	15	357,192	141	358,477	173	359,012	223	359,449	221	359,880	333	360,249	63
354,948	13	357,195	139	358,481	27	359,013	9	359,450	21	359,893	152	360,254	62
354,974	15	357,230	120	358,483	176	359,014	111	359,461	9	359,897	99	360,266	241
354,975	13	357,250	128	358,484	11	359,017	27	359,476	54	359,900	107	360,272	82
354,992	12	357,203	84	358,487	5	359,020	40	359,477	225	359,902	97	360,274	81
355,017	13	357,235	140	358,495	10	359,031	25	359,478	22	359,922	107	360,277	93
355,018	13	357,305	26	358,496	4	359,045	34	359,479	68	359,923	112	360,279	213
355,050	19	357,373	112	358,500	17	359,047	32	359,480	35	359,924	107	360,282	127
355,094	13	357,380	140	358,501	17	359,051	175	359,482	54	359,933	69	360,292	64
355,114	13	357,438	21	358,502	175	359,053	9	359,483	67	359,937	254	360,293	222
355,281	72	357,443	40	358,503	2	359,056	67	359,484	3	359,944	118	360,297	221
355,328	57	357,490	18	358,507	1	359,058	131	359,486	67	359,945	55	360,298	151
355,333	59	357,526	60	358,508	210	359,059	47	359,490	221	359,946	118	360,299	221
355,362	86	357,527	60	358,509	175	359,063	174	359,491	67	359,950	97	360,309	64
355,380	58	357,528	56	358,510	224	359,072	20	359,494	68	359,953	232	360,311	224
355,404	57	357,530	58	358,512	17	359,074	22	359,495	68	359,955	67	360,326	140
355,484	56	357,543	58	358,521	3	359,080	25	359,498	32	359,956	92	360,327	146
355,538	80	357,549	60	358,522	3	359,096	176	359,507	55	359,957	121	360,330	221
355,573	57	357,551	60	358,526	4	359,099	2	359,512	238	359,960	72	360,331	221
355,574	80	357,566	56	358,527	1	359,104	28	359,521	151	359,962	75	360,332	233
355,597	57	357,581	56	358,531	112	359,108	8	359,522	32	359,964	221	360,334	241
355,657	57	357,592	58	358,534	172	359,116	173	359,523	48	359,968	222	360,340	253
355,661	58	357,593	58	358,535	173	359,127	17	359,526	1	359,970	182	360,355	254
355,662	58	357,595	60	358,536	4	359,147	32	359,546	54	359,983	55	360,356	254
355,693	57	357,026	17	358,546	3	359,154	226	359,549	28	359,984	133	360,358	92
355,697	58	357,649	56	358,561	34	359,163	40	359,559	21	359,987	67	360,360	127
355,709	58	357,650	56	358,562	33	359,164	118	359,568	110	359,989	62	360,362	114
355,712	72	357,688	1	358,563	112	359,175	22	359,570	231	359,990	69	360,366	87
355,715	56	357,721	56	358,568	3	359,180	207	359,584	34	359,993	54	360,368	251
355,716	58	357,740	33	358,574	19	359,188	172	359,589	21	359,994	92	360,371	142
355,719	99	357,743	57	358,578	2	359,201	174	359,602	220	359,996	107	360,372	142
355,726	61	357,760	57	358,583	173	359,205	34	359,604	4	359,997	251	360,378	252
355,733	58	357,773	16	358,584	30	359,211	5	359,610	207	360,002	221	360,402	103
355,743	58	357,783	60	358,592	16	359,231	132	359,618	224	360,003	62	360,404	89
355,783	57	357,796	42	358,593	19	359,234	9	359,620	22	360,005	67	360,416	114
355,790	72	357,806	34	358,600	3	359,249	224	359,628	50	360,013	69	360,417	256
355,800	58	357,808	17	358,603	31	359,250	111	359,631	49	360,015	144	360,419	113
355,808	56	357,821	16	358,612	173	359,254	174	359,634	4	360,017	121	360,422	112
355,810	58	357,822	55	358,615	18	359,262	173	359,641	16	360,018	127	360,424	86
355,866	56	357,860	80	358,621	25	359,267	34	359,643	222	360,023	97	360,436	118
355,867	94	357,908	18	358,639	5	359,272	21	359,647	2	360,024	11	360,441	80
355,970	95	357,919	17	358,643	704	359,273	174	359,652	21	360,027	252	360,446	113
356,020	128	357,943	49	358,644	31	359,276	174	359,653	118	360,034	98	360,447	105
356,103	121	357,947	67	358,645	103	359,277	25	359,659	22	360,038	131	360,448	89
356,107	95	357,959	176	358,662	8	359,279	133	359,661	54	360,039	144	360,449	144

No. of Patent.	Page. B.												
360,452	5	360,970	288	361,475	84	362,034	171	362,580	220	363,080	212	363,668	379
360,467	106	360,971	87	361,476	136	362,040	170	362,581	170	363,083	211	363,669	370
360,477	84	360,973	90	361,477	242	362,048	242	362,585	202	363,099	332	363,694	272
360,482	106	360,980	110	361,480	302	362,060	338	362,593	332	363,100	266	363,698	264
360,487	89	360,981	97	361,493	288	362,061	333	362,600	220	363,105	217	363,700	256
360,489	102	360,982	226	361,496	114	362,064	130	362,605	104	363,116	212	363,701	211
360,490	157	360,986	235	361,502	110	362,068	102	362,608	232	363,122	231	363,706	257
360,491	157	360,993	93	361,511	315	362,069	125	362,609	170	363,124	242	363,710	274
360,492	251	361,004	101	361,551	84	362,073	131	362,620	210	363,146	349	363,711	249
360,493	252	361,007	84	361,560	114	362,078	131	362,632	270	363,147	213	363,735	248
360,501	251	361,022	97	361,564	136	362,086	114	362,666	218	363,149	181	363,740	370
360,503	145	361,025	235	361,565	99	362,090	266	362,669	171	363,158	231	363,746	263
360,513	90	361,026	77	361,570	100	362,100	266	362,673	220	363,174	211	363,760	204
360,522	254	361,029	152	361,578	98	362,102	182	362,680	163	363,189	232	363,770	415
360,530	91	361,031	227	361,592	121	362,112	170	362,683	231	363,191	257	363,771	213
360,533	253	361,040	235	361,597	301	362,114	142	362,689	165	363,192	263	363,776	201
360,539	252	361,041	152	361,603	239	362,120	113	362,696	333	363,193	236	363,784	311
360,547	87	361,046	92	361,604	84	362,127	350	362,700	231	363,205	180	363,788	261
360,552	111	361,047	81	361,608	109	362,129	190	362,719	189	363,213	225	363,794	270
360,558	251	361,064	97	361,608	100	362,134	113	362,727	225	363,215	181	363,810	378
360,568	70	361,081	130	361,612	97	362,100	102	362,728	197	363,218	181	363,812	248
360,572	105	361,084	107	361,619	135	362,172	198	362,729	184	363,228	212	363,815	267
360,574	87	361,094	106	361,634	234	362,175	242	362,735	368	363,236	267	363,823	250
360,581	141	361,095	111	361,630	87	362,185	238	362,740	237	363,252	213	363,827	261
360,583	254	361,097	254	361,658	110	362,188	238	362,744	240	363,269	212	363,832	379
360,586	157	361,118	114	361,667	301	362,190	133	362,746	231	363,284	258	363,837	207
360,599	157	361,135	136	361,675	85	362,191	351	362,754	270	363,289	192	363,840	352
360,602	252	361,138	127	361,678	226	362,195	332	362,755	192	363,291	182	363,846	250
360,607	156	361,139	110	361,680	86	362,204	332	362,756	192	363,298	192	363,848	248
360,613	102	361,149	111	361,681	86	362,213	266	362,785	225	363,299	181	363,852	250
360,618	103	361,151	118	361,689	83	362,215	332	362,786	225	363,300	181	363,854	288
360,621	103	361,153	251	361,690	232	362,219	114	362,798	191	363,301	212	363,859	438
360,626	142	361,158	136	361,691	220	362,226	125	362,797	198	363,305	229	363,861	310
360,633	130	361,161	227	361,711	111	362,233	115	362,805	171	363,306	231	363,862	438
360,649	68	361,164	113	361,714	130	362,253	182	362,812	197	363,343	232	363,871	305
360,668	141	361,165	226	361,726	114	362,267	333	362,817	332	363,344	220	363,872	273
360,709	68	361,166	106	361,727	100	362,290	115	362,823	230	363,345	272	363,877	268
360,720	92	361,167	105	361,728	93	362,297	118	362,834	207	363,346	207	363,883	258
360,723	125	361,173	136	361,732	252	362,299	130	362,835	232	363,347	261	363,888	274
360,736	103	361,179	114	361,734	107	362,313	240	362,837	207	363,348	272	363,895	378
360,742	256	361,184	114	361,737	113	362,317	135	362,838	192	363,353	227	363,897	410
360,743	154	361,200	226	361,738	113	362,322	225	362,843	212	363,357	211	363,900	211
360,746	146	361,216	78	361,748	110	362,327	132	362,845	233	363,358	257	363,902	212
360,747	85	361,217	234	361,750	114	362,328	130	362,846	337	363,359	257	363,908	256
360,750	103	361,233	128	361,754	86	362,329	132	362,852	368	363,360	217	363,909	201
360,754	83	361,240	98	361,760	97	362,337	115	362,860	207	363,362	234	363,918	258
360,757	84	361,244	97	361,768	235	362,341	132	362,861	181	363,369	213	363,921	350
360,758	146	361,248	112	361,769	98	362,343	206	362,862	237	363,372	257	363,929	257
360,765	145	361,253	102	361,795	83	362,346	102	362,900	151	363,375	221	363,931	248
360,774	114	361,254	105	361,805	234	362,347	102	362,902	231	363,376	207	363,932	250
360,776	254	361,262	152	361,810	130	362,352	223	362,906	332	363,392	368	363,933	202
360,778	145	361,265	110	361,814	145	362,354	171	362,907	237	363,393	239	363,934	203
360,780	112	361,267	125	361,820	97	362,361	163	362,908	181	363,394	355	363,936	261
360,792	114	361,271	136	361,828	97	362,363	242	362,910	211	363,404	232	363,948	260
360,794	111	361,286	106	361,837	170	362,375	267	362,911	280	363,423	260	363,950	379
360,796	128	361,289	131	361,842	225	362,376	227	362,921	337	363,424	200	363,954	310
360,798	254	361,290	106	361,856	189	362,424	219	362,927	231	363,426	258	363,955	379
360,803	114	361,310	93	361,858	182	362,427	170	362,933	212	363,429	212	363,958	258
360,809	115	361,312	87	361,860	301	362,429	163	362,934	217	363,432	272	363,962	207
360,814	91	361,317	121	361,865	338	362,430	104	362,935	217	363,435	232	363,971	200
360,815	235	361,329	85	361,888	301	362,431	164	362,938	182	363,436	260	363,972	248
360,816	84	361,335	116	361,890	125	362,432	333	362,939	258	363,441	256	363,973	213
360,817	86	361,338	301	361,893	191	362,437	257	362,947	237	363,445	217	363,986	450
360,821	237	361,341	301	361,898	182	362,439	189	362,955	258	363,448	258	363,988	311
360,822	237	361,343	127	361,900	370	362,441	333	362,956	231	363,452	232	363,989	288
360,823	113	361,344	121	361,901	183	362,449	333	362,964	233	363,470	280	363,997	272
360,825	105	361,346	127	361,903	206	362,457	332	362,965	334	363,483	197	364,000	405
360,826	112	361,350	302	361,906	170	362,458	332	362,967	137	363,487	211	364,006	208
360,827	113	361,352	301	361,909	337	362,460	225	362,971	233	363,505	256	364,020	258
360,830	93	361,356	93	361,910	95	362,462	333	362,972	272	363,526	260	364,023	450
360,833	111	361,357	93	361,912	160	362,465	220	362,973	231	363,543	212	364,033	261
360,840	253	361,361	98	361,914	171	362,466	165	362,975	231	363,550	238	364,040	459
360,848	115	361,362	257	361,916	180	362,467	171	362,984	192	363,569	311	364,041	448
360,852	237	361,363	191	361,917	350	362,479	184	362,987	334	363,584	212	364,042	400
360,855	110	361,364	111	361,918	118	362,480	235	362,988	192	363,604	267	364,043	249
360,860	236	361,370	106	361,920	133	362,481	237	363,001	308	363,606	232	364,046	442
360,863	85	361,378	301	361,921	179	362,482	333	363,009	331	363,609	212	364,048	497
360,896	226	361,381	257	361,925	114	362,487	163	363,010	212	363,612	227	364,049	261
360,899	202	361,383	267	361,935	102	362,489	224	363,016	212	363,613	212	364,050	497
360,901	93	361,388	120	361,941	198	362,498	163	363,018	231	363,614	241	364,052	463
360,905	110	361,390	188	361,944	137	362,501	332	363,026	257	363,615	268	364,060	459
360,907	254	361,394	113	361,951	357	362,507	231	363,027	333	363,616	449	364,061	450
360,908	125	361,395	84	361,956	240	362,513	334	363,028	219	363,			

No. of Patent.	Page. B.												
364,129	286	364,655	299	365,125	482	365,719	322	366,202	353	366,877	433	367,306	384
364,130	257	364,661	353	365,140	357	365,721	292	366,290	325	366,885	372	367,397	384
364,131	263	364,663	340	365,141	293	365,723	293	366,304	345	366,889	439	367,401	401
364,134	450	364,665	243	365,143	357	365,725	292	366,305	447	366,890	423	367,406	401
364,136	268	364,666	209	365,147	352	365,737	329	366,307	324	366,909	526	367,407	422
364,141	480	364,669	495	365,148	292	365,742	309	366,320	350	366,912	404	367,412	372
364,142	256	364,684	316	365,154	263	365,754	352	366,337	360	366,916	540	367,416	501
364,144	249	364,685	315	365,160	353	365,755	359	366,340	540	366,918	544	367,420	590
364,147	498	364,688	423	365,165	490	365,759	400	366,348	493	366,922	405	367,437	472
364,148	418	364,696	310	365,170	503	365,760	577	366,351	338	366,926	407	367,439	462
364,153	403	364,698	243	365,178	330	365,770	423	366,353	360	366,934	406	367,449	433
364,163	321	364,699	350	365,198	340	365,801	244	366,354	353	366,938	400	367,452	388
364,174	212	364,701	493	365,199	389	365,815	353	366,360	328	366,940	449	367,458	372
364,187	497	364,702	525	365,208	365	365,819	322	366,369	328	366,944	438	367,459	372
364,188	352	364,708	303	365,211	528	365,828	343	366,377	350	366,947	378	367,460	422
364,193	212	364,711	431	365,214	490	365,834	292	366,380	369	366,961	545	367,462	592
364,201	260	364,718	311	365,217	519	365,869	202	366,404	340	366,963	460	367,475	433
364,204	249	364,723	497	365,233	338	365,875	316	366,409	244	366,964	541	367,480	401
364,215	213	364,737	315	365,247	292	365,886	343	366,412	337	366,968	406	367,481	422
364,221	450	364,739	497	365,248	307	365,889	293	366,414	320	366,969	435	367,482	372
364,223	289	364,746	324	365,250	501	365,892	299	366,417	341	366,970	421	367,494	438
364,225	261	364,750	303	365,256	365	365,895	311	366,420	340	366,971	421	367,504	452
364,226	361	364,757	298	365,267	299	365,898	292	366,421	446	366,973	404	367,505	385
364,229	213	364,762	243	365,281	490	365,902	208	366,429	370	366,974	397	367,513	435
364,236	248	364,765	316	365,290	263	365,903	311	366,430	325	366,980	541	367,514	377
364,239	213	364,778	299	365,299	495	365,912	298	366,472	408	366,987	460	367,515	575
364,243	460	364,780	303	365,303	353	365,915	311	366,476	423	366,990	541	367,518	372
364,255	450	364,781	310	365,308	286	365,922	418	366,483	389	366,992	444	367,523	422
364,256	213	364,785	299	365,312	293	365,926	292	366,487	397	366,996	433	367,524	422
364,273	288	364,788	497	365,317	369	365,930	343	366,494	377	366,997	378	367,525	422
364,277	262	364,794	303	365,323	337	365,933	202	366,498	423	367,001	437	367,534	432
364,285	290	364,799	307	365,338	274	365,935	340	366,502	433	367,003	540	367,545	580
364,289	268	364,807	519	365,348	365	365,937	498	366,503	449	367,013	557	367,548	405
364,300	310	364,815	302	365,350	335	365,938	495	366,510	450	367,024	528	367,563	435
364,303	211	364,819	263	365,354	292	365,942	320	366,511	388	367,028	449	367,571	431
364,304	272	364,822	322	365,365	336	365,943	436	366,513	418	367,037	528	367,572	372
364,309	270	364,830	313	365,366	436	365,945	339	366,516	440	367,042	380	367,577	377
364,314	244	364,837	357	365,371	262	365,949	339	366,517	449	367,045	437	367,582	421
364,322	261	364,844	503	365,380	293	365,963	417	366,520	435	367,047	406	367,585	502
364,323	495	364,850	343	365,414	364	365,964	341	366,521	416	367,054	544	367,587	473
364,327	463	364,852	322	365,420	293	365,971	433	366,523	471	367,063	444	367,588	473
364,338	248	364,858	244	365,421	490	365,981	341	366,524	498	367,074	389	367,593	502
364,348	244	364,863	315	365,422	351	365,982	336	366,525	397	367,080	433	367,597	502
364,351	262	364,870	350	365,425	311	365,983	341	366,529	405	367,081	389	367,598	421
364,361	260	364,873	494	365,434	353	365,989	203	366,530	422	367,082	446	367,602	431
364,387	264	364,890	305	365,436	336	365,994	417	366,541	435	367,090	405	367,606	373
364,394	448	364,896	321	365,450	293	365,999	305	366,542	432	367,102	437	367,611	389
364,400	272	364,902	304	365,466	336	366,002	340	366,543	418	367,105	446	367,612	447
364,401	249	364,904	303	365,468	495	366,004	353	366,545	389	367,114	423	367,615	389
364,403	249	364,920	243	365,484	336	366,006	330	366,547	421	367,116	416	367,617	376
364,407	248	364,921	244	365,493	358	366,009	300	366,549	378	367,120	407	367,628	401
364,418	248	364,926	209	365,502	330	366,010	447	366,550	438	367,124	405	367,630	388
364,419	249	364,939	353	365,510	352	366,015	305	366,552	449	367,126	418	367,631	405
364,423	256	364,940	321	365,511	345	366,020	329	366,553	378	367,161	425	367,633	423
364,438	257	364,943	298	365,513	293	366,022	493	366,554	438	367,162	425	367,649	438
364,449	244	364,954	244	365,525	345	366,026	523	366,556	421	367,163	402	367,652	377
364,457	200	364,955	243	365,526	350	366,027	494	366,559	425	367,170	405	367,654	421
364,462	261	364,957	321	365,530	447	366,055	541	366,563	377	367,176	407	367,658	423
364,463	250	364,968	360	365,531	400	366,059	350	366,571	392	367,183	437	367,660	421
364,464	288	364,981	243	365,532	336	366,060	300	366,580	498	367,194	407	367,666	502
364,466	268	364,989	322	365,534	496	366,065	300	366,581	403	367,198	388	367,671	384
364,476	268	364,993	343	365,535	496	366,066	328	366,586	437	367,209	406	367,675	503
364,484	268	364,995	335	365,536	345	366,070	336	366,587	437	367,223	402	367,679	458
364,490	496	364,999	422	365,538	311	366,072	494	366,600	494	367,235	416	367,680	500
364,491	268	365,004	322	365,540	400	366,077	357	366,623	449	367,240	544	367,690	420
364,502	267	365,007	310	365,541	496	366,080	352	366,626	373	367,246	555	367,698	432
364,503	290	365,012	303	365,542	330	366,088	351	366,628	388	367,274	417	367,708	624
364,506	244	365,016	417	365,544	299	366,090	338	366,633	388	367,282	540	367,709	420
364,507	311	365,017	299	365,546	358	366,101	352	366,646	377	367,288	462	367,713	450
364,510	270	365,018	353	365,547	358	366,102	330	366,652	437	367,292	541	367,719	433
364,520	272	365,019	305	365,548	358	366,106	494	366,654	389	367,301	406	367,725	402
364,529	343	365,023	351	365,554	298	366,107	403	366,656	376	367,305	438	367,728	458
364,533	290	365,033	311	365,564	338	366,110	336	366,661	607	367,309	432	367,727	404
364,537	495	365,034	311	365,565	498	366,112	330	366,675	432	367,310	432	367,736	410
364,538	363	365,037	358	365,566	418	366,113	324	366,676	372	367,312	410	367,732	425
364,544	490	365,038	404	365,586	292	366,114	345	366,677	377	367,313	422	367,732	432
364,546	311	365,042	351	365,614	423	366,140	404	366,680	372	367,347	388	367,817	518
364,546	313	365,046	350	365,615	298	366,158	345	366,752	377	367,352	591	367,820	433
364,567	244	365,046	358	365,621	338	366,160	350	366,786	450	367,353	591	367,820	433
364,574	313	365,076	493	365,626	292	366,168	380	366,792	435	367,358	372	367,821	402
364,586	290	365,081	268	365,628	436	366,169	340	366,793	425	367,361	389	367,828	423
364,588	244	365,084	517	365,630	293	366,174	345	366,800	425	367,363	377	367,830	416
364,613	341	365,085	338										

No. of Patent.	Page. B.												
367,803	590	368,425	474	368,906	510	369,382	518	369,917	571	370,404	622	370,949	600
367,864	593	368,426	458	368,910	503	369,391	527	369,918	609	370,406	580	370,958	600
367,885	446	368,427	451	368,919	525	369,393	511	369,920	577	370,470	615	370,962	599
367,874	475	368,433	545	368,921	640	369,394	536	369,930	531	370,477	601	370,964	612
367,890	400	368,437	504	368,925	452	369,396	538	369,931	452	370,482	596	370,965	599
367,892	591	368,452	514	368,928	400	369,400	486	369,936	765	370,490	763	370,966	745
367,896	417	368,457	510	368,929	528	369,412	492	369,943	557	370,494	609	370,978	600
367,901	393	368,477	457	368,930	672	369,413	484	369,946	764	370,497	769	370,979	609
367,907	592	368,485	457	368,932	527	369,415	537	369,947	718	370,501	601	370,984	622
367,909	444	368,492	454	368,935	670	369,430	472	369,953	453	370,506	625	370,993	618
367,913	465	368,498	508	368,955	491	369,432	487	369,956	778	370,511	597	370,995	618
367,916	443	368,505	637	368,966	475	369,447	514	369,958	547	370,512	595	370,996	618
367,927	608	368,509	651	368,970	482	369,453	672	369,968	703	370,516	580	370,999	624
367,932	518	368,510	651	368,980	453	369,471	506	369,984	556	370,530	601	371,000	639
367,939	413	368,530	591	368,998	515	369,473	670	369,997	537	370,533	611	371,001	639
367,951	501	368,538	473	369,001	473	369,474	463	369,975	492	370,536	709	371,003	596
367,952	623	368,552	590	369,003	452	369,490	537	369,976	537	370,539	610	371,009	624
367,965	417	368,556	514	369,012	452	369,506	487	369,977	769	370,550	614	371,021	589
367,966	410	368,559	523	369,017	461	369,512	500	369,978	769	370,564	585	371,023	806
367,969	412	368,567	507	369,024	482	369,514	515	369,981	554	370,566	609	371,036	622
367,970	410	368,571	528	369,025	454	369,518	527	369,985	764	370,578	615	371,037	639
367,984	555	368,580	514	369,027	618	369,523	500	369,987	558	370,591	587	371,038	630
367,986	432	368,587	520	369,034	453	369,528	671	369,990	765	370,600	625	371,042	634
367,991	472	368,590	591	369,040	491	369,529	529	369,991	765	370,606	705	371,048	597
367,996	472	368,595	514	369,054	490	369,533	517	369,994	577	370,608	624	371,051	763
368,012	416	368,598	505	369,059	455	369,534	407	370,011	543	370,614	612	371,052	763
368,013	399	368,600	452	369,062	528	369,536	473	370,012	555	370,621	579	371,054	608
368,015	407	368,605	471	369,063	470	369,556	575	370,013	549	370,623	709	371,059	599
368,022	417	368,606	503	369,066	516	369,558	558	370,017	638	370,626	610	371,070	652
368,025	450	368,607	520	369,072	671	369,561	651	370,018	607	370,628	611	371,077	624
368,027	591	368,613	636	369,082	401	369,565	607	370,020	734	370,630	609	371,080	608
368,031	404	368,614	453	369,085	514	369,568	672	370,022	561	370,635	585	371,086	580
368,041	425	368,616	520	369,089	489	369,572	670	370,026	556	370,636	607	371,088	792
368,051	590	368,618	453	369,094	512	369,576	651	370,029	558	370,650	612	371,102	609
368,058	472	368,619	452	369,097	475	369,580	557	370,033	555	370,651	581	371,108	634
368,078	417	368,621	475	369,107	453	369,581	557	370,036	558	370,658	611	371,112	599
368,082	449	368,622	475	369,108	471	369,582	557	370,037	765	370,665	580	371,114	581
368,083	416	368,626	505	369,115	524	369,583	557	370,039	573	370,666	595	371,117	634
368,091	433	368,649	472	369,116	518	369,584	557	370,042	607	370,670	612	371,129	581
368,095	400	368,655	474	369,117	657	369,585	557	370,046	550	370,671	587	371,142	702
368,106	453	368,659	500	369,118	670	369,586	670	370,062	452	370,672	587	371,143	580
368,114	421	368,663	500	369,120	472	369,592	658	370,064	555	370,685	622	371,144	703
368,115	432	368,664	500	369,124	505	369,593	465	370,070	687	370,693	785	371,145	595
368,123	402	368,667	499	369,126	525	369,596	558	370,087	452	370,694	609	371,153	624
368,143	404	368,669	458	369,135	467	369,604	672	370,088	650	370,699	614	371,156	633
368,154	608	368,670	453	369,136	480	369,613	671	370,121	650	370,704	610	371,161	579
368,155	421	368,673	527	369,137	491	369,614	671	370,130	718	370,705	703	371,163	769
368,156	422	368,675	505	369,139	461	369,615	533	370,144	565	370,706	599	371,172	764
368,164	410	368,711	514	369,140	524	369,616	658	370,154	453	370,716	765	371,174	580
368,167	406	368,718	520	369,141	670	369,623	573	370,170	538	370,722	611	371,176	599
368,179	430	368,719	453	369,142	404	369,633	575	370,198	547	370,723	615	371,177	582
368,180	409	368,726	672	369,143	453	369,640	555	370,199	559	370,724	704	371,185	765
368,186	425	368,727	557	369,144	452	369,647	646	370,211	762	370,733	609	371,196	626
368,188	303	368,729	454	369,146	505	369,665	532	370,217	607	370,743	624	371,202	721
368,194	409	368,731	454	369,148	524	369,674	672	370,222	543	370,748	581	371,205	609
368,209	432	368,733	454	369,154	505	369,690	671	370,235	764	370,752	614	371,213	609
368,215	585	368,742	408	369,157	514	369,701	533	370,243	537	370,760	610	371,222	600
368,256	520	368,746	671	369,162	465	369,706	532	370,252	716	370,769	612	371,229	610
368,257	458	368,765	454	369,169	539	369,708	558	370,263	533	370,771	703	371,236	599
368,273	454	368,767	512	369,215	500	369,710	670	370,266	454	370,772	595	371,239	597
368,276	528	368,772	688	369,218	670	369,715	578	370,278	547	370,774	703	371,245	601
368,277	471	368,774	512	369,230	673	369,716	651	370,279	454	370,780	579	371,249	611
368,284	471	368,777	515	369,233	672	369,717	607	370,282	536	370,793	599	371,257	601
368,289	506	368,780	471	369,240	479	369,718	649	370,285	453	370,807	624	371,259	599
368,290	453	368,782	491	369,242	475	369,721	704	370,287	539	370,810	597	371,266	611
368,293	406	368,783	404	369,244	465	369,725	651	370,288	764	370,812	620	371,272	601
368,294	037	368,789	672	369,252	476	369,737	588	370,289	547	370,813	611	371,273	589
368,298	507	368,793	700	369,255	515	369,741	532	370,291	453	370,815	586	371,276	615
368,300	519	368,795	492	369,258	470	369,765	672	370,293	500	370,816	586	371,279	599
368,301	481	368,796	465	369,259	672	369,778	543	370,295	565	370,820	703	371,289	611
368,306	505	368,798	467	369,260	475	369,785	538	370,297	558	370,822	587	371,297	599
368,312	470	368,800	468	369,261	514	369,791	587	370,300	763	370,823	704	371,334	609
368,315	037	368,801	475	369,262	528	369,798	459	370,323	638	370,834	600	371,335	793
368,316	506	368,807	475	369,268	500	369,799	658	370,325	539	370,842	580	371,336	702
368,322	407	368,811	514	369,271	530	369,807	550	370,344	577	370,845	703	371,338	646
368,326	457	368,812	671	369,283	670	369,824	558	370,346	453	370,847	595	371,339	680
368,341	500	368,815	460	369,284	485	369,834	483	370,350	786	370,860	595	371,343	675
368,345	500	368,816	415	369,294	475	369,842	538	370,355	543	370,889	600	371,344	688
368,350	500	368,820	489	369,296	670	369,843	555	370,356	762	370,894	600	371,346	641
368,351	036	368,822	526	369,297	670	369,845	657	370,387	587	370,903	611	371,360	675
368,352	512	368,824	704	369,298	507	369,850	671	370,388	765	370,905	764	371,361	609
368,356	529	368,829	704	369,301	671	369,852	539	370,391	506	370,908	624	371,371	608
368,358	474	368,835	670	36									

No. of Patent.	Page. B.												
371,451	688	372,046	629	372,061	629	373,228	739	373,849	685	374,487	879	375,156	839
371,454	658	372,047	640	372,078	683	373,239	608	373,858	704	374,497	879	375,157	797
371,459	793	372,058	620	372,079	620	373,241	761	373,867	686	374,498	879	375,160	951
371,461	676	372,067	629	372,082	728	373,242	661	373,885	662	374,505	804	375,161	858
371,474	689	372,075	688	372,083	754	373,248	727	373,893	832	374,510	832	375,164	789
371,478	646	372,076	688	372,700	726	373,249	822	373,896	878	374,514	755	375,194	997
371,481	688	372,084	628	372,715	667	373,255	753	373,897	662	374,515	827	375,195	874
371,484	635	372,085	565	372,720	752	373,257	701	373,905	708	374,519	838	375,196	800
371,490	792	372,089	633	372,740	663	373,262	738	373,911	726	374,541	774	375,199	878
371,491	608	372,097	640	372,744	660	373,263	739	373,918	603	374,544	755	375,201	874
371,492	646	372,112	642	372,745	660	373,269	804	373,925	737	374,548	878	375,218	798
371,494	506	372,120	633	372,754	679	373,274	704	373,928	685	374,549	708	375,223	839
371,496	506	372,122	790	372,755	670	373,278	739	373,929	820	374,556	837	375,229	788
371,502	646	372,123	793	372,756	661	373,284	683	373,931	601	374,560	802	375,237	791
371,503	649	372,128	657	372,759	661	373,289	661	373,947	722	374,567	828	375,242	796
371,522	670	372,129	507	372,760	662	373,292	682	373,994	778	374,575	755	375,248	816
371,527	687	372,143	818	372,761	808	373,295	682	373,995	779	374,577	785	375,250	827
371,543	633	372,147	1050	372,763	715	373,315	832	373,999	833	374,594	928	375,288	800
371,550	657	372,154	646	372,769	662	373,326	832	374,002	775	374,597	831	375,298	800
371,553	646	372,157	600	372,771	802	373,345	761	374,003	775	374,602	780	375,300	791
371,554	792	372,160	792	372,775	739	373,354	733	374,005	775	374,604	785	375,304	804
371,565	792	372,173	588	372,776	739	373,355	733	374,007	804	374,624	779	375,305	828
371,566	654	372,179	630	372,780	750	373,369	732	374,008	984	374,627	1055	375,313	883
371,569	649	372,182	628	372,781	725	373,406	675	374,010	833	374,630	756	375,314	972
371,572	620	372,189	600	372,783	714	373,412	662	374,016	756	374,650	785	375,317	788
371,580	792	372,190	797	372,784	714	373,415	675	374,017	830	374,662	750	375,320	807
371,587	600	372,197	628	372,785	714	373,417	745	374,024	829	374,671	755	375,321	932
371,590	646	372,213	817	372,797	722	373,418	721	374,029	830	374,674	878	375,334	881
371,594	793	372,217	505	372,798	722	373,426	747	374,043	830	374,684	775	375,342	816
371,599	620	372,221	630	372,801	711	373,429	704	374,044	1050	374,698	756	375,347	932
371,600	629	372,223	642	372,805	711	373,430	679	374,046	756	374,705	775	375,348	932
371,604	675	372,224	707	372,810	663	373,434	684	374,047	708	374,707	756	375,350	708
371,617	632	372,225	817	372,827	734	373,440	833	374,049	830	374,710	803	375,355	880
371,621	678	372,232	656	372,828	798	373,441	661	374,055	832	374,718	773	375,358	927
371,627	687	372,236	609	372,835	706	373,442	727	374,056	778	374,721	928	375,360	928
371,632	678	372,241	595	372,836	738	373,453	683	374,060	818	374,723	780	375,361	803
371,633	608	372,245	817	372,837	683	373,454	707	374,069	981	374,735	1056	375,363	864
371,643	636	372,251	634	372,843	733	373,455	660	374,070	981	374,737	756	375,367	883
371,649	620	372,255	817	372,844	674	373,480	761	374,074	981	374,754	756	375,370	981
371,671	620	372,281	753	372,847	737	373,486	761	374,077	756	374,761	772	375,381	806
371,677	798	372,282	607	372,855	839	373,490	833	374,085	800	374,766	990	375,383	876
371,683	608	372,301	794	372,859	834	373,511	723	374,089	756	374,769	777	375,388	804
371,690	596	372,306	724	372,865	750	373,516	753	374,096	987	374,777	702	375,393	932
371,694	1017	372,316	774	372,870	734	373,520	726	374,097	774	374,779	756	375,395	974
371,709	677	372,321	714	372,883	732	373,521	732	374,098	981	374,791	769	375,396	808
371,719	610	372,323	709	372,908	742	373,527	601	374,111	829	374,793	878	375,399	881
371,723	633	372,324	683	372,911	754	373,530	675	374,112	811	374,795	756	375,404	800
371,740	609	372,325	707	372,915	683	373,538	669	374,113	778	374,796	837	375,414	928
371,746	620	372,326	803	372,916	734	373,542	660	374,123	809	374,800	803	375,423	881
371,752	635	372,327	807	372,917	737	373,549	742	374,125	818	374,818	1055	375,424	881
371,753	629	372,328	730	372,928	714	373,553	721	374,134	832	374,838	827	375,425	881
371,755	629	372,336	607	372,930	683	373,560	662	374,135	755	374,839	931	375,433	806
371,770	679	372,338	704	372,940	679	373,566	742	374,140	756	374,849	780	375,437	975
371,786	676	372,341	607	372,946	726	373,567	742	374,142	803	374,864	878	375,446	809
371,793	628	372,351	719	372,947	732	373,600	660	374,145	804	375,805	928	375,451	928
371,800	656	372,354	745	372,955	754	373,601	833	374,146	804	375,806	928	375,460	800
371,811	652	372,355	703	372,958	724	373,609	727	374,166	816	374,817	818	375,462	809
371,812	507	372,366	725	372,964	732	373,617	601	374,186	834	374,876	808	375,476	799
371,822	792	372,380	731	372,973	685	373,624	912	374,191	1050	374,880	802	375,479	789
371,820	798	372,385	737	372,982	600	373,628	830	374,195	769	374,884	931	375,480	787
371,827	703	372,387	607	372,986	685	373,631	602	374,214	830	374,892	796	375,481	804
371,833	667	372,388	724	373,004	751	373,640	600	374,230	755	374,893	960	375,498	798
371,839	1021	372,389	792	373,015	803	373,642	832	374,241	804	374,894	816	375,500	983
371,837	646	372,399	608	373,017	683	373,643	851	374,245	756	374,895	878	375,510	960
371,841	634	372,402	737	373,025	733	373,644	829	374,250	775	374,901	878	375,520	787
371,846	628	372,411	630	373,029	723	373,648	704	374,271	809	374,914	808	375,521	787
371,848	834	372,412	632	373,037	795	373,653	839	374,319	756	374,915	821	375,525	877
371,850	563	372,414	752	373,060	724	373,658	750	374,333	802	374,923	827	375,540	927
371,851	634	372,424	719	373,066	733	373,661	603	374,353	817	374,927	816	375,562	804
371,859	646	372,426	630	373,071	818	373,662	775	374,356	767	374,928	878	375,573	802
371,862	628	372,429	666	373,084	754	373,663	775	374,361	767	374,941	821	375,575	848
371,865	700	372,434	792	373,085	817	373,664	833	374,370	775	374,949	878	375,595	804
371,866	794	372,451	732	373,092	711	373,667	775	374,380	832	374,950	932	375,599	802
371,872	658	372,460	731	373,117	708	373,680	834	374,382	756	374,951	931	375,608	791
371,880	608	372,485	607	373,126	745	373,690	730	374,386	829	374,953	802	375,609	807
371,888	600	372,496	609	373,127	833	373,695	727	374,390	756	374,962	828	375,614	804
371,894	817	372,503	705	373,129	833	373,701	830	374,399	783	374,963	828	375,623	987
371,895	620	372,507	792	373,134	734	373,704	902	374,419	776	374,964	790	375,627	928
371,897	628	372,525	807	373,141	739	373,708	731	374,420	778	374,975	791	375,636	799
371,901	778	372,555	714	373,152	753	373,711	731	374,422	877	374,983	839	375,639	804
371,905	642	372,561	711	373,180	834	373,717	602	374,423	756	374,987	829	375,662	848
371,909	629	372,562	704	373,185	776	373,742	710	374,436	878	375,002	807	375,670	983
371,910	505	372,572											

No. of Patent.	Page. B.												
375,786	901	376,346	1008	376,977	938	377,578	868	378,130	1003	378,704	1071	379,316	1114
375,791	902	376,356	974	376,988	943	377,582	924	378,165	916	378,769	917	379,318	995
375,792	988	376,358	936	376,989	948	377,583	973	378,178	992	378,799	983	379,319	934
375,793	988	376,372	929	376,996	945	377,587	948	378,192	916	378,802	981	379,320	938
375,795	981	376,383	823	377,008	867	377,595	973	378,194	978	378,832	1101	379,321	1117
375,796	877	376,386	1013	377,010	867	377,602	936	378,197	950	378,841	916	379,322	989
375,798	981	376,392	934	377,011	988	377,611	988	378,198	901	378,844	983	379,331	989
375,806	888	376,397	926	377,021	914	377,616	867	378,206	951	378,847	935	379,334	945
375,811	822	376,407	933	377,024	975	377,618	945	378,209	984	378,848	1017	379,335	964
375,821	881	376,413	947	377,025	921	377,623	960	378,217	925	378,849	998	379,341	1114
375,824	914	376,415	929	377,033	913	377,626	867	378,218	917	378,858	977	379,347	1037
375,827	981	376,418	922	377,051	898	377,631	1020	378,222	921	378,865	1071	379,360	1117
375,830	898	376,419	808	377,063	913	377,632	1020	378,223	978	378,866	1072	379,373	1037
375,838	889	376,426	934	377,068	951	377,640	988	378,226	982	378,867	1072	379,396	1114
375,840	886	376,430	822	377,069	962	377,678	1020	378,228	930	378,870	1105	379,397	1127
375,841	912	376,432	950	377,077	973	377,679	980	378,229	962	378,873	1071	379,412	1006
375,842	973	376,436	869	377,079	990	377,688	945	378,239	961	378,874	990	379,421	1008
375,843	908	376,438	975	377,084	959	377,695	1020	378,252	922	378,875	1000	379,423	961
375,845	882	376,449	922	377,090	937	377,705	848	378,272	951	378,880	964	379,431	955
375,848	1115	376,457	974	377,097	803	377,712	930	378,273	1007	378,885	1105	379,432	944
375,849	913	376,467	894	377,098	944	377,714	959	378,281	921	378,886	992	379,433	955
375,854	989	376,470	948	377,128	958	377,715	868	378,300	962	378,888	1008	379,434	955
375,865	898	376,481	948	377,131	984	377,716	926	378,313	916	378,890	965	379,438	995
375,873	881	376,491	922	377,132	973	377,720	935	378,319	930	378,891	987	379,442	1117
375,883	975	376,500	974	377,150	961	377,721	1020	378,324	1019	378,894	933	379,454	1017
375,885	974	376,515	946	377,189	868	377,730	1044	378,334	942	378,895	1072	379,472	1004
376,897	991	376,516	946	377,190	1044	377,739	1021	378,335	995	378,900	997	379,493	934
375,902	873	376,533	1101	377,193	926	377,740	1026	378,339	916	378,901	1017	379,499	944
375,910	821	376,534	989	377,199	868	377,746	987	378,341	917	378,903	942	379,515	931
376,916	897	376,540	932	377,201	921	377,749	932	378,342	929	378,906	935	379,534	905
375,920	1100	376,544	885	377,203	937	377,751	950	378,345	934	378,910	979	379,549	934
375,925	883	376,555	822	377,205	949	377,768	931	378,372	1007	378,911	997	379,550	956
375,928	874	376,556	951	377,207	1026	377,771	868	378,373	1007	378,913	995	379,555	1117
375,930	873	376,574	821	377,218	945	377,776	947	378,374	912	378,914	995	379,557	1019
375,941	895	376,583	933	377,220	868	377,782	933	378,375	1007	378,916	990	379,558	961
375,945	883	376,586	916	377,224	951	377,785	933	378,376	1007	378,917	1076	379,572	997
375,948	981	376,598	930	377,226	868	377,786	867	378,383	1071	378,918	959	379,575	977
375,950	820	376,601	821	377,233	930	377,795	920	378,384	916	378,927	998	379,580	1114
375,953	889	376,603	973	377,234	944	377,809	948	378,388	988	378,934	945	379,587	1017
375,965	1003	376,604	960	377,239	935	377,814	1021	378,390	1071	378,935	1104	379,590	988
375,972	888	376,606	921	377,242	867	377,819	922	378,394	1000	378,940	942	379,596	1026
375,978	882	376,610	974	377,243	958	377,826	945	378,396	944	378,942	1073	379,598	988
375,987	895	376,611	922	377,244	987	377,830	948	378,397	944	378,943	990	379,604	979
376,009	875	376,612	948	377,245	913	377,833	1019	378,399	939	378,952	998	379,630	1115
376,013	821	376,613	924	377,249	1020	377,857	956	378,400	996	378,962	991	379,632	987
376,022	903	376,619	822	377,253	1020	377,858	991	378,425	920	378,968	965	379,650	1115
376,033	903	376,622	820	377,255	1055	377,860	922	378,437	925	378,973	995	379,658	977
376,038	911	376,646	929	377,257	944	377,862	038	378,439	916	378,974	990	379,666	965
376,043	894	376,654	885	377,258	1020	377,870	1021	378,448	944	378,979	1071	379,674	1114
376,045	972	376,660	992	377,259	921	377,884	867	378,451	945	378,989	1006	379,675	1042
376,047	902	376,661	885	377,260	987	377,886	922	378,454	1072	379,004	989	379,677	1137
376,072	873	376,667	975	377,265	948	377,898	868	378,455	1000	379,014	981	379,678	1006
376,080	981	376,680	821	377,271	978	377,903	936	378,457	945	379,018	980	379,679	1009
376,093	897	376,683	934	377,278	1020	377,909	923	378,463	1071	379,034	992	379,681	1037
376,097	883	376,684	821	377,284	951	377,931	934	378,464	981	379,042	1071	379,683	1093
376,098	899	376,727	804	377,291	937	377,956	984	378,466	981	379,051	965	379,702	992
376,107	898	376,739	922	377,298	980	377,959	934	378,473	1076	379,053	965	379,705	1114
376,113	821	376,743	987	377,300	1021	377,962	916	378,476	1073	379,057	990	379,708	1012
376,114	903	376,746	913	377,300	922	377,969	988	378,478	988	379,076	1072	379,709	1114
376,121	902	376,748	051	377,304	921	377,974	980	378,484	980	379,081	964	379,710	985
376,122	898	376,752	809	377,313	929	377,978	1026	378,487	1072	379,085	964	379,715	1009
376,123	822	376,756	925	377,328	943	377,979	998	378,490	981	379,092	965	379,716	1042
376,130	808	376,760	916	377,336	946	377,980	921	378,498	1071	379,094	997	379,717	971
376,147	908	376,768	929	377,337	1012	377,981	1020	378,500	1105	379,099	976	379,739	1042
376,149	912	376,772	921	377,348	924	377,990	956	378,501	1072	379,119	977	379,740	1000
376,150	889	376,785	930	377,353	808	377,991	901	378,502	945	379,133	935	379,741	1114
376,174	980	376,788	804	377,376	868	377,994	1104	378,508	988	379,141	944	379,742	978
376,176	882	376,792	938	377,381	935	377,995	916	378,518	990	379,152	995	379,743	1012
376,178	980	376,793	956	377,385	990	377,996	917	378,521	901	379,154	998	379,744	1012
376,180	913	376,794	961	377,411	961	378,000	900	378,525	1003	379,155	988	379,746	1000
376,190	889	376,795	961	377,419	938	378,002	973	378,544	1071	379,158	961	379,755	1041
376,196	822	376,796	921	377,435	924	378,005	993	378,553	1070	379,184	936	379,756	1041
376,198	893	376,797	039	377,441	938	378,008	988	378,555	937	379,196	979	379,759	970
376,209	897	376,801	1030	377,442	972	378,010	925	378,557	916	379,205	1004	379,760	995
376,219	888	376,808	930	377,451	943	378,011	933	378,577	983	379,208	960	379,761	1012
376,247	955	376,808	1008	377,452	924	378,012	936	378,578	913	379,214	965	379,770	1012
376,252	928	376,807	948	377,464	974	378,017	900	378,588	923	379,216	936	379,785	1001
376,253	823	376,818	950	377,469	990	378,024	931	378,596	998	379,230	960	379,788	992
376,257	922	376,819	867	377,474	921	378,034	1021	378,604	1073	379,231	926	379,791	1024
376,266	896	376,825	940	377,480	926	378,044	929	378,608	998	379,235	977	379,797	1007
376,273	821	376,832	929	377,484	947	378,045	1070	378,613	1072	379,281	1001	379,802	1115
376,276	949	376,833	930	377,486	930	3							

No. of Patent.	Page. B.												
379,048	1026	380,140	1137	380,348	1018	380,677	1039	380,893	1112	381,155	1082	381,500	1089
379,056	1003	380,143	1037	380,356	1024	380,679	1032	380,920	1075	381,161	1094	381,518	1092
379,084	1000	380,152	1037	380,358	1006	380,693	1041	380,941	1123	381,168	1001	381,520	1078
379,085	999	380,158	1006	380,360	1115	380,699	1007	380,950	1042	381,170	1109	381,633	1075
379,088	1013	380,164	1007	380,369	1033	380,703	1043	380,954	1108	381,183	1089	381,668	1123
380,007	981	380,168	1038	380,370	1025	380,707	1040	380,955	1119	381,186	1093	381,799	1106
380,008	977	380,177	1091	380,380	1066	380,724	1075	380,964	1042	381,189	1094	381,848	1122
380,020	1073	380,200	1030	380,387	1086	380,726	1060	380,965	1109	381,190	1089	381,931	1124
380,029	1013	380,208	1117	380,410	1060	380,730	1075	380,970	1127	381,192	1067	381,932	1124
380,042	1026	380,214	1024	380,415	1061	380,746	1062	380,987	1108	381,205	1109	381,933	1067
380,045	1086	380,220	1061	380,427	1087	380,747	1002	380,988	1122	381,211	1090	381,041	1069
380,052	1114	380,228	1001	380,428	1067	380,764	1062	380,992	1107	381,223	1081	381,955	1123
380,053	1074	380,232	1039	380,431	1114	380,769	1110	380,993	1112	381,225	1076	381,956	1123
380,061	1115	380,230	1033	380,446	1012	380,805	1122	381,004	1108	381,240	1108	381,971	1119
380,062	1115	380,240	1060	380,457	1041	380,810	1074	381,007	1107	381,202	1080	382,146	1119
380,065	1114	380,242	1038	380,464	1032	380,820	1039	381,009	1119	381,286	1091	382,157	1135
380,068	1060	380,252	1114	380,465	1043	380,821	1033	381,030	1033	381,200	1007	382,167	1119
380,069	1018	380,256	1067	380,407	1066	380,822	1074	381,035	1033	381,291	1108	382,181	1124
380,074	1065	380,269	1026	380,483	1041	380,826	1042	381,046	1113	381,308	1069	382,183	1119
380,076	1076	380,278	1039	380,486	1028	380,830	1107	381,049	1124	381,310	1090	382,200	1135
380,077	1010	380,290	1032	380,495	1018	380,832	1075	381,055	1056	381,318	1089	382,501	1109
380,078	1115	380,298	1060	380,502	1059	380,834	1032	381,072	1119	381,342	1090	382,517	1132
380,082	1115	380,310	1002	380,513	1029	380,835	1038	381,075	1043	381,373	1078	382,618	1118
380,083	1137	380,311	1057	380,518	1041	380,836	1040	381,088	1123	381,387	1000	382,735	1126
380,090	1002	380,317	1041	380,553	1028	380,844	1122	381,092	1056	381,390	1078	382,815	1138
380,102	1062	380,324	1037	380,583	1060	380,868	1110	381,098	1044	381,422	1092		
380,107	1053	380,330	1000	380,614	1060	380,882	1122	381,108	1123	381,427	1108		
380,110	1029	380,333	1058	380,615	1066	380,884	1123	381,115	1123	381,430	1108		
380,112	1117	380,342	1061	380,640	1076	380,887	1100	381,133	1033	381,448	1089		
380,114	1027	380,345	1043	380,674	1075	380,890	1039	381,153	1108	381,456	1074		

UNITED STATES PATENTS.

(Note.—The letter "R" indicates that a reissue of the patent is referred to.)

No. of Patent.	Page. B.												
1,788,585	494	1,798,338	90	1,800,856	150	1,802,103	44	1,803,720	22	1,804,893	142	1,805,686	218
1,788,632	13	1,798,341	91	1,800,881	111	1,802,196	25	1,803,737	148	1,804,917	90	1,805,711	217
1,788,773	016	1,798,605	16	1,800,892	9	1,802,197	3	1,803,766	2	1,804,924	190	1,805,712	120
1,790,807	15	1,798,784	92	1,800,984	4	1,802,242	103	1,803,767	2	1,804,932	233	1,805,713	120
1,790,907	44	1,798,792	42	1,800,912	27	1,802,274	4	1,803,771	112	1,804,933	90	1,805,720	218
1,790,915	13	1,798,811	42	1,800,940	44	1,802,292	240	1,803,792	3	1,804,934	80	1,805,755	104
1,791,009	31	1,798,968	92	1,800,964	11	1,802,300	437	1,803,810	18	1,804,941	86	1,805,756	103
1,791,103	146	1,798,996	148	1,800,965	3	1,802,475	0	1,803,821	25	1,804,964	103	1,805,773	121
1,792,088	2	1,798,997	148	1,800,997	11	1,802,518	8	1,803,854	51	1,804,966	85	1,805,775	404
1,792,048	1021	1,798,998	148	1,801,000	22	1,802,531	10	1,803,860	19	1,804,967	142	1,805,799	142
1,792,716	138	1,798,999	148	1,801,044	2	1,802,575	10	1,803,941	93	1,804,978	226	1,805,855	190
1,792,833	1104	1,799,218	90	1,801,045	27	1,802,582	110	1,803,943	8	1,804,991	187	1,805,917	85
1,793,021	1104	1,799,231	91	1,801,105	151	1,802,601	80	1,803,956	51	1,805,001	83	1,805,020	190
1,793,027	80	1,799,268	80	1,801,111	3	1,802,602	161	1,803,963	90	1,805,013	144	1,805,045	81
1,793,028	80	1,799,413	90	1,801,150	07	1,802,667	106	1,803,964	92	1,805,020	100	1,805,933	378
1,793,030	80	1,799,414	137	1,801,168	5	1,802,693	111	1,803,969	51	1,805,029	84	1,805,954	378
1,793,084	42	1,799,431	137	1,801,213	10	1,802,695	151	1,804,024	90	1,805,049	180	1,805,081	141
1,793,093	138	1,799,640	137	1,801,203	2	1,802,713	5	1,804,073	8	1,805,098	236	1,805,092	188
1,794,057	138	1,799,793	18	1,801,313	18	1,802,776	147	1,804,108	51	1,805,104	106	1,805,020	93
1,794,097	138	1,800,131	35	1,801,317	151	1,802,919	151	1,804,124	93	1,805,113	90	1,805,023	218
1,794,110	1137	1,800,223	49	1,801,318	151	1,802,959	3	1,804,170	683	1,805,151	100	1,805,027	83
1,794,453	1019	1,800,224	4	1,801,319	151	1,802,960	3	1,804,220	680	1,805,162	404	1,806,020	102
1,794,808	1021	1,800,235	2	1,801,320	151	1,802,967	2	1,804,237	683	1,805,173	84	1,806,036	219
1,794,861	1020	1,800,239	146	1,801,339	151	1,802,989	151	1,804,249	828	1,805,178	93	1,806,037	218
1,795,658	148	1,800,247	25	1,801,340	436	1,803,081	2	1,804,301	827	1,805,199	100	1,806,060	82
1,795,757	19	1,800,297	9	1,801,341	436	1,803,083	10	1,804,370	737	1,805,214	81	1,806,003	218
1,796,018	34	1,800,353	146	1,801,349	27	1,803,139	8	1,804,398	494	1,805,245	120	1,806,077	85
1,796,115	130	1,800,371	1071	1,801,393	9	1,803,140	10	1,804,402	89	1,805,247	227	1,806,089	86
1,796,240	34	1,800,445	112	1,801,412	5	1,803,148	3	1,804,417	143	1,805,316	228	1,806,000	86
1,796,299	80	1,800,477	112	1,801,430	8	1,803,174	437	1,804,432	87	1,805,353	82	1,806,000	227
1,796,750	192	1,800,500	10	1,801,500	50	1,803,189	68	1,804,451	92	1,805,360	84	1,806,134	88
1,796,980	34	1,800,532	4	1,801,604	2	1,803,276	989	1,804,463	84	1,805,448	189	1,806,146	89
1,797,179	34	1,800,551	18	1,801,627	10	1,803,340	111	1,804,466	404	1,805,458	233	1,806,152	118
1,797,240	33	1,800,561	18	1,801,629	68	1,803,380	4	1,804,503	518	1,805,473	235	1,806,240	228
1,797,241	34	1,800,571	27	1,801,662	4	1,803,445	20	1,804,530	142	1,805,500	84	1,806,241	86
1,797,243	33	1,800,586	89	1,801,666	18	1,803,450	2	1,804,551	103	1,805,526	84	1,806,247	233
1,797,247	19	1,800,589	151	1,801,670	1	1,803,467	112	1,804,553	91	1,805,550	107	1,806,249	85
1,797,255	92	1,800,632	44	1,801,704	18	1,803,468	112	1,804,554	91	1,805,554	110	1,806,282	217
1,797,262	92	1,800,639	19	1,801,742	150	1,803,488	9	1,804,555	143	1,805,559	94	1,806,283	219
1,797,305	01	1,800,667	77	1,801,782	16	1,803,510	147	1,804,561	93	1,805,567	189	1,806,284	218
1,797,513	92	1,800,669	27	1,801,842	3	1,803,581	01	1,804,602	160	1,805,592	80	1,806,290	127
1,797,550	16	1,800,687	140	1,801,887	1071	1,803,582	100	1,804,631	227	1,805,614	90	1,806,300	142
1,797,593	119	1,800,689	1	1,801,901	1072	1,803,585	3	1,804,632	94	1,805,615	218	1,806,347	115
1,797,715	91	1,800,691	68	1,801,932	4	1,803,607	118	1,804,633	107	1,805,616	219	1,806,370	171
1,797,806	16	1,800,693	2	1,801,942	11	1,803,611	111						

No. of Patent.	Page. B.												
1,800,571	249	1,808,108	126	1,809,554	220	1,811,233	373	1,813,028	388	1,814,298	413	1,815,934	453
1,800,588	105	1,808,108	219	1,809,563	183	1,811,242	344	1,813,061	404	1,814,300	464	1,815,963	485
1,800,589	105	1,808,169	164	1,809,570	119	1,811,243	412	1,813,073	406	1,814,344	462	1,816,006	507
1,800,597	218	1,808,184	188	1,809,614	85	1,811,247	373	1,813,086	405	1,814,300	383	1,816,007	555
1,800,616	217	1,808,185	188	1,809,627	85	1,811,257	412	1,813,117	410	1,814,377	407	1,816,018	519
1,800,618	136	1,808,186	188	1,809,628	165	1,811,268	462	1,813,120	447	1,814,392	388	1,816,020	400
1,800,619	136	1,808,187	188	1,809,646	165	1,811,272	411	1,813,127	446	1,814,393	383	1,816,033	514
1,800,663	103	1,808,188	188	1,809,695	129	1,811,290	435	1,813,133	404	1,814,397	383	1,816,050	453
1,800,671	616	1,808,191	280	1,809,727	188	1,811,307	343	1,813,174	465	1,814,434	1123	1,816,128	518
1,800,690	102	1,808,200	188	1,809,770	241	1,811,308	411	1,813,184	501	1,814,543	499	1,816,135	480
1,800,698	82	1,808,214	171	1,809,777	249	1,811,309	411	1,813,226	391	1,814,568	504	1,816,138	521
1,800,715	592	1,808,231	105	1,809,780	191	1,811,314	343	1,813,234	405	1,814,584	471	1,816,140	459
1,800,732	86	1,808,253	103	1,809,818	329	1,811,360	351	1,813,236	698	1,814,600	513	1,816,146	416
1,800,734	220	1,808,264	164	1,809,826	352	1,811,402	390	1,813,268	390	1,814,602	471	1,816,212	454
1,800,735	137	1,808,271	94	1,809,833	324	1,811,485	351	1,813,306	433	1,814,621	411	1,816,242	520
1,800,738	188	1,808,276	164	1,809,834	324	1,811,522	371	1,813,320	433	1,814,654	474	1,816,294	458
1,800,779	88	1,808,340	170	1,809,835	382	1,811,531	340	1,813,324	389	1,814,700	411	1,816,297	530
1,800,780	88	1,808,343	217	1,809,862	330	1,811,552	414	1,813,327	413	1,814,719	557	1,816,304	513
1,800,798	591	1,808,355	188	1,809,871	351	1,811,587	370	1,813,335	405	1,814,720	557	1,816,333	518
1,800,806	86	1,808,362	227	1,809,978	341	1,811,597	373	1,813,336	405	1,814,741	405	1,816,338	526
1,800,853	188	1,808,419	219	1,809,980	345	1,811,602	341	1,813,341	409	1,814,745	413	1,816,339	526
1,800,888	145	1,808,420	165	1,809,990	341	1,811,603	352	1,813,342	388	1,814,751	501	1,816,343	380
1,800,910	238	1,808,428	120	1,810,039	341	1,811,617	411	1,813,343	388	1,814,768	430	1,816,367	459
1,800,933	220	1,808,429	164	1,810,048	411	1,811,621	411	1,813,344	1123	1,814,783	463	1,816,423	380
1,800,965	234	1,808,498	115	1,810,055	325	1,811,627	373	1,813,345	388	1,814,787	410	1,816,441	530
1,800,973	235	1,808,513	81	1,810,057	337	1,811,642	411	1,813,346	388	1,814,788	449	1,816,447	518
1,800,980	85	1,808,529	236	1,810,068	412	1,811,644	352	1,813,357	446	1,814,796	404	1,816,456	501
1,800,988	234	1,808,546	164	1,810,070	556	1,811,645	412	1,813,358	446	1,814,801	685	1,816,457	501
1,800,989	87	1,808,547	190	1,810,090	325	1,811,646	411	1,813,362	402	1,814,808	470	1,816,509	512
1,807,017	105	1,808,578	120	1,810,131	325	1,811,663	322	1,813,365	1137	1,814,822	465	1,816,523	422
1,807,019	89	1,808,584	81	1,810,147	404	1,811,682	350	1,813,366	446	1,814,853	414	1,816,533	458
1,807,021	180	1,808,594	191	1,810,155	325	1,811,689	350	1,813,367	405	1,814,870	423	1,816,562	453
1,807,031	120	1,808,604	84	1,810,181	724	1,811,712	305	1,813,377	439	1,814,878	432	1,816,617	512
1,807,036	225	1,808,613	81	1,810,217	325	1,811,719	405	1,813,384	407	1,814,888	449	1,816,620	512
1,807,043	127	1,808,626	163	1,810,312	325	1,811,783	462	1,813,386	410	1,814,910	506	1,816,739	499
1,807,060	220	1,808,707	207	1,810,313	340	1,811,795	461	1,813,387	439	1,814,981	414	1,816,742	513
1,807,067	127	1,808,709	165	1,810,369	412	1,811,799	345	1,813,437	388	1,814,986	415	1,816,743	512
1,807,068	191	1,808,716	119	1,810,394	325	1,811,809	337	1,813,452	425	1,815,022	412	1,816,762	515
1,807,078	202	1,808,721	188	1,810,395	352	1,811,834	411	1,813,454	474	1,815,050	491	1,816,800	526
1,807,111	223	1,808,722	591	1,810,398	402	1,811,864	461	1,813,465	501	1,815,052	512	1,816,827	458
1,807,112	83	1,808,730	160	1,810,409	351	1,811,889	328	1,813,512	391	1,815,054	513	1,816,830	465
1,807,122	137	1,808,737	240	1,810,472	462	1,811,900	350	1,813,531	501	1,815,056	421	1,816,836	480
1,807,147	83	1,808,755	234	1,810,476	324	1,811,910	556	1,813,575	464	1,815,078	514	1,816,837	473
1,807,157	191	1,808,762	106	1,810,483	462	1,811,920	372	1,813,607	1137	1,815,079	514	1,816,851	438
1,807,162	180	1,808,773	102	1,810,487	341	1,811,972	360	1,813,619	501	1,815,080	514	1,816,854	486
1,807,178	223	1,808,793	190	1,810,518	446	1,811,979	371	1,813,628	413	1,815,081	513	1,816,855	486
1,807,183	137	1,808,830	142	1,810,557	556	1,812,009	329	1,813,637	406	1,815,089	425	1,816,860	471
1,807,197	85	1,808,831	233	1,810,560	950	1,812,217	668	1,813,642	413	1,815,127	454	1,816,872	459
1,807,232	85	1,808,841	234	1,810,574	330	1,812,230	328	1,813,658	501	1,815,128	491	1,816,875	432
1,807,241	136	1,808,851	106	1,810,589	370	1,812,308	668	1,813,660	461	1,815,129	491	1,816,879	501
1,807,242	136	1,808,853	220	1,810,612	555	1,812,326	325	1,813,661	461	1,815,132	547	1,816,922	425
1,807,263	85	1,808,889	191	1,810,614	353	1,812,339	372	1,813,662	461	1,815,149	515	1,816,961	472
1,807,304	591	1,808,900	171	1,810,632	412	1,812,341	372	1,813,664	414	1,815,160	530	1,816,973	502
1,807,320	224	1,808,905	107	1,810,637	324	1,812,347	305	1,813,665	500	1,815,227	527	1,816,978	518
1,807,321	220	1,808,917	104	1,810,648	330	1,812,357	344	1,813,677	512	1,815,258	467	1,816,983	472
1,807,333	85	1,808,929	190	1,810,658	338	1,812,372	669	1,813,685	500	1,815,280	550	1,816,988	507
1,807,453	188	1,808,938	104	1,810,659	345	1,812,376	343	1,813,687	406	1,815,276	480	1,816,996	505
1,807,454	188	1,808,956	164	1,810,663	931	1,812,393	669	1,813,726	500	1,815,302	400	1,817,048	485
1,807,456	85	1,808,998	141	1,810,664	931	1,812,397	341	1,813,735	518	1,815,326	453	1,817,123	540
1,807,483	235	1,809,011	115	1,810,665	931	1,812,426	669	1,813,750	660	1,815,328	502	1,817,183	517
1,807,521	89	1,809,016	240	1,810,673	924	1,812,430	635	1,813,788	704	1,815,379	507	1,817,207	480
1,807,528	137	1,809,030	498	1,810,682	1101	1,812,446	669	1,813,828	661	1,815,410	420	1,817,250	458
1,807,543	106	1,809,033	164	1,810,700	491	1,812,450	405	1,813,833	704	1,815,460	492	1,817,323	418
1,807,544	224	1,809,041	188	1,810,714	487	1,812,450	401	1,813,836	661	1,815,464	512	1,817,338	433
1,807,563	233	1,809,067	114	1,810,728	502	1,812,497	305	1,813,840	682	1,815,479	512	1,817,345	471
1,807,581	115	1,809,095	114	1,810,729	502	1,812,507	435	1,813,842	685	1,815,505	431	1,817,349	486
1,807,583	104	1,809,114	163	1,810,738	458	1,812,563	608	1,813,870	662	1,815,508	514	1,817,363	438
1,807,585	115	1,809,130	220	1,810,789	454	1,812,567	351	1,813,882	413	1,815,525	457	1,817,402	485
1,807,598	172	1,809,167	217	1,810,794	505	1,812,575	462	1,813,883	413	1,815,528	684	1,817,407	471
1,807,599	235	1,809,174	218	1,810,800	453	1,812,589	328	1,813,884	413	1,815,563	492	1,817,421	507
1,807,608	207	1,809,183	220	1,810,802	524	1,812,612	635	1,813,885	413	1,815,576	638	1,817,456	471
1,807,616	120	1,809,185	219	1,810,803	492	1,812,629	635	1,813,886	413	1,815,613	513	1,817,464	486
1,807,642	190	1,809,214	105	1,810,828	457	1,812,648	373	1,813,916	405	1,815,638	512	1,817,465	486
1,807,659	133	1,809,215	105	1,810,866	513	1,812,658	634	1,813,936	447	1,815,646	505	1,817,500	471
1,807,670	180	1,809,227	113	1,810,871	457	1,812,672	345	1,813,988	501	1,815,648	452	1,817,525	501
1,807,711	188</td												

No. of Patent.	Page. B.												
1,817,936	526	1,819,087	538	1,821,390	473	1,823,216	533	1,824,865	608	1,826,455	683	1,827,908	712
1,817,958	485	1,819,729	492	1,821,482	532	1,823,230	547	1,824,867	501	1,826,456	683	1,827,912	714
1,817,968	506	1,819,732	402	1,821,531	521	1,823,239	577	1,824,875	858	1,826,457	683	1,827,915	712
1,817,969	588	1,819,745	538	1,821,540	725	1,823,260	543	1,824,877	595	1,826,514	684	1,827,931	761
1,817,993	486	1,819,700	492	1,821,549	533	1,823,269	533	1,824,898	580	1,826,524	684	1,827,971	684
1,818,054	471	1,819,792	520	1,821,605	543	1,823,310	556	1,824,931	601	1,826,548	660	1,827,986	661
1,818,073	517	1,819,818	1114	1,821,610	533	1,823,335	503	1,824,932	555	1,826,573	711	1,828,004	733
1,818,108	500	1,819,833	538	1,821,634	471	1,823,343	550	1,824,947	588	1,826,635	1051	1,828,005	733
1,818,114	506	1,819,836	537	1,821,639	648	1,823,348	630	1,824,960	607	1,826,667	719	1,828,006	733
1,818,117	452	1,819,838	537	1,821,643	471	1,823,351	532	1,824,961	614	1,826,668	719	1,828,009	761
1,818,136	482	1,819,839	537	1,821,673	542	1,823,352	676	1,824,977	589	1,826,679	719	1,828,028	720
1,818,155	480	1,819,878	526	1,821,703	650	1,823,356	540	1,825,065	618	1,826,681	719	1,828,029	720
1,818,179	473	1,819,879	526	1,821,707	532	1,823,364	587	1,825,178	596	1,826,687	719	1,828,035	736
1,818,188	485	1,819,880	526	1,821,746	634	1,823,372	547	1,825,226	590	1,826,688	719	1,828,036	730
1,818,190	517	1,819,893	485	1,821,747	712	1,823,376	578	1,825,229	580	1,826,689	719	1,828,046	761
1,818,196	473	1,819,953	524	1,821,748	634	1,823,382	586	1,825,270	588	1,826,690	719	1,828,006	662
1,818,203	400	1,819,963	501	1,821,749	634	1,823,408	754	1,825,286	614	1,826,691	719	1,828,130	742
1,818,212	526	1,820,022	558	1,821,750	634	1,823,439	538	1,825,288	615	1,826,692	719	1,828,148	761
1,818,213	526	1,820,046	716	1,821,783	470	1,823,440	538	1,825,294	588	1,826,693	719	1,828,172	763
1,818,214	526	1,820,057	634	1,821,800	540	1,823,451	539	1,825,295	580	1,826,698	795	1,828,210	796
1,818,229	473	1,820,085	485	1,821,856	768	1,823,467	505	1,825,300	609	1,826,701	746	1,828,243	720
1,818,274	589	1,820,161	487	1,821,932	676	1,823,554	577	1,825,307	595	1,826,711	734	1,828,270	727
1,818,346	485	1,820,166	514	1,821,943	656	1,823,558	580	1,825,324	609	1,826,714	753	1,828,279	720
1,818,360	518	1,820,171	485	1,821,956	464	1,823,582	530	1,825,330	581	1,826,726	797	1,828,291	732
1,818,431	589	1,820,172	556	1,821,961	508	1,823,587	538	1,825,333	580	1,826,753	678	1,828,292	734
1,818,452	517	1,820,198	545	1,821,970	473	1,823,605	578	1,825,337	668	1,826,755	731	1,828,253	660
1,818,453	506	1,820,199	485	1,821,983	532	1,823,614	530	1,825,338	688	1,826,773	685	1,828,318	723
1,818,466	503	1,820,204	557	1,822,006	532	1,823,615	530	1,825,349	595	1,826,782	712	1,828,334	746
1,818,488	558	1,820,205	737	1,822,033	688	1,823,691	543	1,825,358	586	1,826,787	668	1,828,338	721
1,818,506	407	1,820,270	501	1,822,040	464	1,823,698	547	1,825,372	579	1,826,792	729	1,828,354	715
1,818,513	587	1,820,205	636	1,822,072	559	1,823,700	600	1,825,374	668	1,826,800	678	1,828,350	737
1,818,530	525	1,820,334	504	1,822,103	471	1,823,732	561	1,825,375	668	1,826,806	678	1,828,362	712
1,818,547	518	1,820,340	484	1,822,108	640	1,823,787	531	1,825,377	581	1,826,825	719	1,828,373	660
1,818,549	500	1,820,371	634	1,822,125	768	1,823,813	532	1,825,443	580	1,826,846	689	1,828,398	712
1,818,570	485	1,820,380	635	1,822,126	543	1,823,831	533	1,825,463	555	1,826,847	727	1,828,428	714
1,818,575	503	1,820,390	635	1,822,127	587	1,823,852	559	1,825,466	625	1,826,880	682	1,828,429	714
1,818,576	503	1,820,395	400	1,822,130	573	1,823,860	574	1,825,477	579	1,826,881	682	1,828,430	714
1,818,615	491	1,820,417	505	1,822,142	537	1,823,873	611	1,825,501	556	1,826,882	682	1,828,440	713
1,818,618	524	1,820,432	521	1,822,146	676	1,823,874	611	1,825,533	660	1,826,897	728	1,828,461	762
1,818,623	486	1,820,444	562	1,822,174	543	1,823,882	570	1,825,556	580	1,826,932	682	1,828,466	714
1,818,644	505	1,820,455	556	1,822,221	532	1,823,895	581	1,825,565	557	1,826,955	732	1,828,490	661
1,818,674	587	1,820,462	485	1,822,254	674	1,823,897	588	1,825,603	585	1,826,974	678	1,828,484	662
1,818,702	485	1,820,502	503	1,822,266	684	1,823,907	554	1,825,620	614	1,826,987	736	1,828,490	661
1,818,711	504	1,820,533	486	1,822,271	587	1,823,908	611	1,825,640	663	1,827,038	730	1,828,492	660
1,818,713	489	1,820,538	502	1,822,275	533	1,823,922	588	1,825,655	710	1,827,073	712	1,828,499	667
1,818,770	490	1,820,567	529	1,822,290	482	1,823,928	601	1,825,707	663	1,827,076	712	1,828,511	719
1,818,774	471	1,820,568	529	1,822,303	465	1,823,967	580	1,825,725	715	1,827,079	730	1,828,548	662
1,818,778	517	1,820,573	635	1,822,323	533	1,823,984	611	1,825,752	684	1,827,082	678	1,828,559	708
1,818,812	513	1,820,593	528	1,822,350	588	1,823,994	588	1,825,762	715	1,827,083	677	1,828,589	661
1,818,816	506	1,820,600	400	1,822,372	590	1,824,020	688	1,825,763	682	1,827,106	668	1,828,031	667
1,818,839	506	1,820,645	635	1,822,380	537	1,824,079	580	1,825,771	726	1,827,107	713	1,828,646	667
1,818,846	472	1,820,657	490	1,822,383	827	1,824,088	580	1,825,773	687	1,827,144	727	1,828,690	724
1,818,876	468	1,820,722	508	1,822,396	556	1,824,093	557	1,825,790	660	1,827,163	742	1,828,701	683
1,818,901	490	1,820,741	532	1,822,411	649	1,824,101	599	1,825,798	797	1,827,169	761	1,828,704	762
1,818,903	679	1,820,744	516	1,822,416	675	1,824,103	586	1,825,841	682	1,827,184	728	1,828,710	724
1,818,904	467	1,820,761	495	1,822,447	464	1,824,104	586	1,825,861	714	1,827,194	730	1,828,727	729
1,818,912	490	1,820,811	500	1,822,449	452	1,824,166	555	1,825,869	720	1,827,199	711	1,828,734	663
1,818,913	501	1,820,872	517	1,822,486	532	1,824,177	687	1,825,935	737	1,827,204	683	1,828,736	719
1,818,937	503	1,820,878	490	1,822,506	471	1,824,215	587	1,825,947	684	1,827,210	683	1,828,767	726
1,818,992	768	1,820,907	635	1,822,530	538	1,824,272	580	1,825,949	684	1,827,211	733	1,828,781	711
1,819,003	768	1,820,908	538	1,822,561	651	1,824,282	585	1,825,965	724	1,827,213	722	1,828,788	753
1,819,006	721	1,820,920	464	1,822,604	543	1,824,351	599	1,825,977	712	1,827,223	682	1,828,830	661
1,819,070	722	1,820,957	700	1,822,607	588	1,824,360	599	1,825,983	662	1,827,238	727	1,828,839	660
1,819,095	491	1,820,962	543	1,822,600	532	1,824,361	599	1,826,007	791	1,827,247	683	1,828,846	687
1,819,114	556	1,820,963	636	1,822,680	532	1,824,421	602	1,826,008	683	1,827,263	724	1,828,848	720
1,819,164	555	1,820,966	472	1,822,700	577	1,824,424	580	1,826,011	733	1,827,328	711	1,828,859	671
1,819,165	490	1,820,974	532	1,822,720	472	1,824,428	602	1,826,028	725	1,827,356	677	1,828,872	732
1,819,166	490	1,820,976	626	1,822,733	588	1,824,430	602	1,826,065	745	1,827,426	727	1,828,858	704
1,819,190	486	1,820,977	626	1,822,753	539	1,824,448	616	1,826,091	739	1,827,467	731	1,828,082	719
1,819,198	515	1,820,978	626	1,822,755	539	1,824,458	581	1,826,112	663	1,827,526	729	1,828,098	713
1,819,233	501	1,820,983	636	1,822,792	471	1,824,463	581	1,826,124	725	1,827,536	720	1,829,020	689
1,819,238	512	1,820,986	656	1,822,842	538	1,824,496	622	1,826,131	736	1,827,537	714	1,829,031	678
1,819,239	512	1,820,994	639	1,822,848	465	1,824,498	581	1,826,132	736	1,827,543	726	1,829,039	678
1,819,241	503	1,821,036	578	1,822,861	539	1,824,507	612	1,826,153	736	1,827,551	736	1,829,068	712
1,819,314	490	1,821,050	828	1,822,862	539	1,824,521	590	1,826,156	711	1,827,604	689	1,829,110	705

No. of Patent.	Page. B.												
1,829,381	679	1,830,934	842	1,832,012	779	1,833,220	789	1,834,783	914	1,836,093	885	1,837,480	808
1,829,395	678	1,830,959	889	1,832,013	886	1,833,274	807	1,834,814	884	1,836,131	868	1,837,519	926
1,829,424	713	1,830,962	702	1,832,038	808	1,833,313	838	1,834,844	882	1,836,139	893	1,837,536	912
1,829,480	688	1,830,963	925	1,832,048	788	1,833,315	788	1,834,848	869	1,836,166	820	1,837,690	987
1,829,481	688	1,830,966	745	1,832,069	893	1,833,317	786	1,834,880	888	1,836,176	894	1,837,709	901
1,829,502	689	1,830,970	762	1,832,092	828	1,833,321	802	1,834,895	880	1,836,181	924	1,837,721	895
1,829,511	742	1,830,972	830	1,832,100	876	1,833,322	802	1,834,903	882	1,836,207	873	1,837,777	887
1,829,522	678	1,830,980	768	1,832,102	841	1,833,335	788	1,834,940	877	1,836,219	874	1,837,779	894
1,829,529	670	1,830,984	777	1,832,100	821	1,833,384	818	1,834,960	895	1,836,264	901	1,837,834	822
1,829,539	678	1,830,992	775	1,832,140	829	1,833,386	787	1,834,963	889	1,836,265	901	1,837,835	896
1,829,547	602	1,830,994	708	1,832,163	779	1,833,396	876	1,834,973	903	1,836,267	912	1,837,836	823
1,829,565	730	1,831,030	768	1,832,192	773	1,833,418	770	1,834,974	903	1,836,275	901	1,837,853	820
1,829,571	686	1,831,032	768	1,832,202	830	1,833,429	827	1,835,024	886	1,836,301	868	1,837,854	881
1,829,583	687	1,831,034	785	1,832,211	974	1,833,430	770	1,835,025	897	1,836,305	828	1,837,855	881
1,829,618	602	1,831,049	708	1,832,217	831	1,833,450	847	1,835,026	898	1,836,317	895	1,837,877	806
1,829,623	684	1,831,051	876	1,832,269	788	1,833,454	805	1,835,052	884	1,836,338	822	1,837,878	896
1,829,635	683	1,831,053	831	1,832,307	847	1,833,464	847	1,835,055	886	1,836,357	886	1,837,985	881
1,829,637	712	1,831,054	775	1,832,322	975	1,833,471	798	1,835,070	885	1,836,368	896	1,838,030	877
1,829,649	734	1,831,059	975	1,832,325	830	1,833,472	875	1,835,101	899	1,836,401	894	1,838,031	926
1,829,668	685	1,831,063	779	1,832,329	841	1,833,473	875	1,835,105	901	1,836,426	885	1,838,032	878
1,829,693	684	1,831,075	786	1,832,355	807	1,833,493	838	1,835,113	805	1,836,427	885	1,838,036	869
1,829,702	796	1,831,076	786	1,832,356	847	1,833,505	770	1,835,117	896	1,836,448	888	1,838,071	902
1,829,705	669	1,831,091	847	1,832,367	796	1,833,506	817	1,835,118	898	1,836,455	882	1,838,072	900
1,829,710	730	1,831,105	777	1,832,375	796	1,833,526	807	1,835,128	827	1,836,510	828	1,838,073	894
1,829,712	734	1,831,121	708	1,832,386	847	1,833,527	780	1,835,140	878	1,836,530	889	1,838,074	882
1,829,722	668	1,831,170	708	1,832,401	823	1,833,500	788	1,835,141	878	1,836,563	821	1,838,075	889
1,829,734	660	1,831,179	886	1,832,415	974	1,833,573	865	1,835,169	804	1,836,568	914	1,838,076	900
1,829,735	722	1,831,197	838	1,832,416	807	1,833,590	802	1,835,175	914	1,836,577	876	1,838,077	900
1,829,741	628	1,831,206	837	1,832,417	807	1,833,597	817	1,835,182	875	1,836,595	903	1,838,078	901
1,829,743	747	1,831,212	708	1,832,418	807	1,833,612	807	1,835,184	877	1,836,629	902	1,838,109	973
1,829,744	628	1,831,226	780	1,832,425	830	1,833,618	830	1,835,192	821	1,836,660	903	1,838,126	943
1,829,746	727	1,831,233	708	1,832,448	828	1,833,619	830	1,835,202	878	1,836,665	896	1,838,145	942
1,829,750	797	1,831,234	708	1,832,449	707	1,833,650	870	1,835,203	902	1,836,685	886	1,838,147	938
1,829,756	684	1,831,241	731	1,832,461	770	1,833,664	788	1,835,205	806	1,836,687	881	1,838,159	999
1,829,763	706	1,831,251	724	1,832,468	788	1,833,680	783	1,835,224	803	1,836,690	880	1,838,171	935
1,829,767	667	1,831,254	803	1,832,469	788	1,833,682	804	1,835,237	875	1,836,695	880	1,838,203	917
1,829,812	629	1,831,265	830	1,832,476	807	1,833,683	804	1,835,237	912	1,836,701	901	1,838,206	915
1,829,849	722	1,831,274	768	1,832,482	886	1,833,684	894	1,835,250	822	1,836,720	897	1,838,273	943
1,829,869	832	1,831,314	776	1,832,483	775	1,833,685	894	1,835,271	822	1,836,721	897	1,838,291	938
1,829,877	722	1,831,315	708	1,832,484	974	1,833,686	894	1,835,279	886	1,836,791	893	1,838,294	969
1,829,895	628	1,831,354	707	1,832,485	884	1,833,691	831	1,835,280	877	1,836,834	882	1,838,296	989
1,829,903	684	1,831,409	723	1,832,534	973	1,833,717	788	1,835,305	903	1,836,849	884	1,838,311	1072
1,829,904	722	1,831,419	838	1,832,552	773	1,833,723	847	1,835,333	923	1,836,862	882	1,838,316	970
1,829,905	722	1,831,424	820	1,832,587	814	1,833,740	731	1,835,421	914	1,836,887	905	1,838,326	976
1,829,906	722	1,831,433	777	1,832,607	776	1,833,771	780	1,835,450	895	1,836,910	923	1,838,331	917
1,829,947	708	1,831,435	837	1,832,612	874	1,833,772	780	1,835,460	895	1,836,914	936	1,838,338	943
1,829,961	730	1,831,436	708	1,832,613	874	1,833,804	838	1,835,474	896	1,836,919	886	1,838,346	1010
1,829,983	722	1,831,469	842	1,832,620	830	1,833,805	838	1,835,482	885	1,836,920	821	1,838,347	1010
1,829,997	739	1,831,474	716	1,832,653	847	1,833,810	804	1,835,510	902	1,836,940	904	1,838,359	935
1,829,998	739	1,831,492	779	1,832,660	798	1,833,852	838	1,835,530	820	1,836,946	881	1,838,367	977
1,829,999	737	1,831,500	779	1,832,661	807	1,833,868	807	1,835,600	877	1,836,963	880	1,838,368	998
1,830,002	628	1,831,512	701	1,832,666	807	1,833,871	787	1,835,606	822	1,836,975	895	1,838,370	943
1,830,010	678	1,831,538	780	1,832,678	772	1,833,894	805	1,835,620	822	1,836,995	823	1,838,374	102
1,830,131	720	1,831,544	777	1,832,710	821	1,833,900	809	1,835,621	822	1,837,002	866	1,838,375	192
1,830,142	685	1,831,567	731	1,832,731	893	1,833,900	809	1,835,630	896	1,837,003	893	1,838,376	102
1,830,162	733	1,831,590	708	1,832,733	847	1,833,955	881	1,835,037	896	1,837,070	897	1,838,386	193
1,830,167	678	1,831,635	778	1,832,781	847	1,833,957	895	1,835,064	896	1,837,072	880	1,838,422	935
1,830,174	628	1,831,642	703	1,832,799	973	1,833,975	881	1,835,077	896	1,837,118	894	1,838,425	943
1,830,178	668	1,831,644	725	1,832,804	776	1,833,976	930	1,835,083	882	1,837,120	877	1,838,427	942
1,830,234	732	1,831,647	707	1,832,810	876	1,834,016	887	1,835,089	905	1,837,138	895	1,838,431	934
1,830,244	684	1,831,650	769	1,832,820	876	1,834,049	990	1,835,712	896	1,837,162	903	1,838,452	942
1,830,275	747	1,831,673	886	1,832,864	807	1,834,057	1101	1,835,713	902	1,837,176	879	1,838,471	945
1,830,300	1008	1,831,707	737	1,832,867	829	1,834,065	822	1,835,724	902	1,837,178	897	1,838,474	1010
1,830,301	1008	1,831,719	876	1,832,875	800	1,834,094	821	1,835,748	875	1,837,179	897	1,838,475	1010
1,830,313	1008	1,831,721	1003	1,832,882	796	1,834,095	869	1,835,705	923	1,837,181	873	1,838,517	1007
1,830,315	719	1,831,728	784	1,832,892	830	1,834,115	886	1,835,700	882	1,837,182	873	1,838,527	943
1,830,320	742	1,831,747	748	1,832,907	797	1,834,116	886	1,835,707	882	1,837,191	821	1,838,560	916
1,830,332	753	1,831,758	702	1,832,913	771	1,834,148	903	1,835,774	923	1,837,193	890	1,838,572	945
1,830,408	716	1,831,795	707	1,832,927	830	1,834,161	885	1,835,791	903	1,837,205	899	1,838,587	934
1,830,421	720	1,831,808	847	1,832,927	830	1,834,203	806	1,835,796	821	1,837,216	902	1,838,596	1010
1,830,461	720	1,831,824	841	1,832,929	831	1,834,206	804	1,835,800	923	1,837,226	874	1,838,609	1004
1,830,465	739	1,831,858	773	1,832,937	776	1,834,210	885	1,835,810	925	1,837,228	882	1,838,618	998
1,830,481	732	1,831,864	770	1,832,940	779	1,834,228	920	1,835,818	885	1,837,230	884	1,838,622	969
1,830,486	728	1,831,875	831	1,832,970	829	1,834,250	897	1,835,827	820	1,837,254	886	1,838,628	916
1,830,489	679	1,831,876	831	1,832,971	800	1,834,275	897	1,835,829	886	1,837,256	894	1,838,666	

No. of Patent.	Page. B.												
1,838,850	192	1,839,498	944	1,841,020	1087	1,842,320	1013	1,843,684	1068	1,844,901	1018	1,845,694	1123
1,838,857	935	1,839,518	1088	1,841,036	970	1,842,355	1012	1,843,700	1068	1,844,919	1038	1,845,708	1039
1,838,862	909	1,839,523	935	1,841,067	999	1,842,360	1105	1,843,704	1024	1,844,925	1038	1,845,713	1041
1,838,880	192	1,839,529	998	1,841,070	971	1,842,394	999	1,843,709	1007	1,844,928	1038	1,845,723	1113
1,838,890	192	1,839,532	904	1,841,072	970	1,842,400	1087	1,843,710	1008	1,844,937	1124	1,845,748	1053
1,838,908	908	1,839,612	984	1,841,076	999	1,842,433	993	1,843,711	1008	1,844,943	1044	1,845,775	1076
1,838,909	102	1,839,613	943	1,841,138	1041	1,842,436	1012	1,843,728	1038	1,844,944	1113	1,845,777	1038
1,838,910	192	1,839,600	1025	1,841,173	1086	1,842,443	1003	1,843,742	1018	1,844,951	1025	1,845,781	1123
1,838,911	102	1,839,636	1088	1,841,184	1006	1,842,446	1013	1,843,760	1078	1,844,963	1119	1,845,784	1029
1,838,912	102	1,839,741	1017	1,841,201	1066	1,842,536	1122	1,843,761	1078	1,844,969	1037	1,845,785	1029
1,838,913	192	1,839,756	943	1,841,235	1067	1,842,544	998	1,843,767	1078	1,844,999	1028	1,845,788	1029
1,838,914	102	1,839,773	977	1,841,258	964	1,842,556	1010	1,843,768	1088	1,845,018	1048	1,845,787	1020
1,838,915	102	1,839,774	977	1,841,261	1011	1,842,620	1078	1,843,779	1079	1,845,030	1028	1,845,813	1064
1,838,916	102	1,839,800	1087	1,841,271	971	1,842,640	1042	1,843,783	1025	1,845,042	1038	1,845,815	1113
1,838,917	102	1,839,801	943	1,841,295	1000	1,842,647	1042	1,843,792	1080	1,845,045	1061	1,845,835	1039
1,838,918	102	1,839,802	943	1,841,300	1080	1,842,688	1024	1,843,822	1057	1,845,050	1061	1,845,917	1112
1,838,919	102	1,839,808	945	1,841,311	977	1,842,689	1024	1,843,861	1018	1,845,056	1062	1,845,959	1113
1,838,920	102	1,839,927	944	1,841,312	977	1,842,696	1007	1,843,862	1018	1,845,058	1113	1,845,961	1053
1,838,921	102	1,839,931	1088	1,841,313	977	1,842,703	992	1,843,867	1078	1,845,059	1058	1,845,998	1032
1,838,922	102	1,839,050	1000	1,841,322	999	1,842,706	999	1,843,869	1042	1,845,064	1113	1,845,977	1048
1,838,923	102	1,839,960	964	1,841,363	970	1,842,712	1024	1,843,870	1056	1,845,067	1038	1,845,978	1124
1,838,924	102	1,839,961	991	1,841,419	1067	1,842,720	1007	1,843,872	1060	1,845,068	1061	1,846,027	1108
1,838,925	102	1,839,978	970	1,841,420	977	1,842,753	970	1,843,880	1060	1,845,103	1123	1,846,058	1078
1,838,926	102	1,839,979	979	1,841,421	1007	1,842,754	970	1,843,903	1086	1,845,128	1061	1,846,067	1108
1,838,927	102	1,839,982	936	1,841,432	1101	1,842,756	971	1,843,931	1017	1,845,129	1061	1,846,076	1108
1,838,928	102	1,839,983	1000	1,841,437	1087	1,842,757	1007	1,843,941	1017	1,845,155	1123	1,846,093	1075
1,838,929	102	1,839,987	1017	1,841,438	1087	1,842,801	984	1,843,943	1025	1,845,156	1024	1,846,114	1086
1,838,930	102	1,839,995	931	1,841,440	1012	1,842,843	1003	1,844,020	1101	1,845,159	1061	1,846,140	1087
1,838,931	102	1,839,996	930	1,841,537	902	1,842,856	971	1,844,150	1059	1,845,163	1060	1,846,143	1103
1,838,932	102	1,840,012	971	1,841,547	984	1,842,857	1042	1,844,154	1080	1,845,231	1039	1,846,152	1086
1,838,933	102	1,840,028	1088	1,841,551	977	1,842,875	904	1,844,160	1094	1,845,247	1113	1,846,168	1108
1,838,934	102	1,840,034	946	1,841,556	1013	1,842,876	1048	1,844,175	1032	1,845,250	1032	1,846,169	1080
1,838,937	102	1,840,063	933	1,841,564	908	1,842,929	996	1,844,195	1060	1,845,271	1123	1,846,185	1075
1,838,938	102	1,840,076	936	1,841,599	1087	1,842,933	1007	1,844,199	1025	1,845,286	1123	1,846,186	1075
1,838,949	059	1,840,105	945	1,841,633	1002	1,842,978	1041	1,844,227	1037	1,845,289	1000	1,846,188	1091
1,838,968	035	1,840,121	944	1,841,644	1079	1,842,983	971	1,844,230	1069	1,845,314	1042	1,846,206	1069
1,838,969	977	1,840,130	944	1,841,667	1042	1,842,984	1025	1,844,306	1044	1,845,316	1061	1,846,209	1109
1,838,976	102	1,840,149	906	1,841,672	996	1,842,990	1013	1,844,327	1017	1,845,341	1094	1,846,210	1109
1,838,977	102	1,840,158	971	1,841,694	1008	1,842,993	1003	1,844,329	1037	1,845,342	1029	1,846,220	1091
1,838,978	102	1,840,162	976	1,841,752	1086	1,843,010	1041	1,844,362	1019	1,845,346	1044	1,846,235	1066
1,838,979	102	1,840,164	971	1,841,754	971	1,843,051	1006	1,844,369	1062	1,845,347	1044	1,846,242	1089
1,838,980	102	1,840,186	964	1,841,763	1013	1,843,063	1067	1,844,400	1010	1,845,355	1012	1,846,247	1093
1,838,986	904	1,840,234	903	1,841,775	978	1,843,127	1079	1,844,420	1038	1,845,356	1012	1,846,248	1100
1,839,010	924	1,840,243	1000	1,841,812	1012	1,843,151	1018	1,844,421	1038	1,845,358	1062	1,846,347	1078
1,839,012	927	1,840,247	944	1,841,825	1060	1,843,158	1068	1,844,434	1025	1,845,366	1087	1,846,354	1089
1,839,018	924	1,840,267	964	1,841,842	1006	1,843,171	1018	1,844,467	1033	1,845,367	1060	1,846,356	1092
1,839,019	924	1,840,269	970	1,841,895	1067	1,843,174	1066	1,844,475	1068	1,845,370	1040	1,846,363	1093
1,839,020	923	1,840,284	944	1,841,978	1088	1,843,196	1078	1,844,476	1028	1,845,376	1032	1,846,365	1099
1,839,024	923	1,840,290	903	1,842,028	1087	1,843,200	1086	1,844,477	1061	1,845,377	1024	1,846,403	1066
1,839,030	905	1,840,305	970	1,842,048	984	1,843,212	1061	1,844,479	1041	1,845,398	1060	1,846,410	1066
1,839,040	923	1,840,322	903	1,842,082	985	1,843,216	1044	1,844,480	1068	1,845,405	1033	1,846,510	1097
1,839,050	1029	1,840,303	1079	1,842,085	1086	1,843,244	1038	1,844,513	1019	1,845,413	1028	1,846,639	1091
1,839,060	1029	1,840,380	1012	1,842,088	1089	1,843,284	1042	1,844,556	1037	1,845,427	1004	1,846,672	1076
1,839,061	1029	1,840,392	1006	1,842,096	970	1,843,304	1056	1,844,563	1029	1,845,441	1060	1,846,680	1074
1,839,062	1029	1,840,395	1042	1,842,097	971	1,843,321	1133	1,844,561	1002	1,845,486	1056	1,846,681	1091
1,839,063	1029	1,840,399	977	1,842,103	1088	1,843,332	1048	1,844,600	1025	1,845,487	1025	1,846,721	1091
1,839,087	925	1,840,403	1066	1,842,104	970	1,843,340	1044	1,844,628	1017	1,845,488	1025	1,846,803	1089
1,839,088	988	1,840,404	977	1,842,105	1067	1,843,354	1079	1,844,634	1029	1,845,493	1123	1,846,810	1092
1,839,090	925	1,840,413	976	1,842,111	1027	1,843,355	1078	1,844,643	1061	1,845,497	1038	1,846,820	1093
1,839,097	965	1,840,431	1010	1,842,132	1068	1,843,372	1044	1,844,662	1033	1,845,538	324	1,846,853	1091
1,839,104	904	1,840,529	1033	1,842,139	985	1,843,385	1068	1,844,686	1053	1,845,539	324	1,846,868	1089
1,839,114	925	1,840,502	1087	1,842,161	1059	1,843,386	1068	1,844,670	1032	1,845,540	324	1,846,869	1091
1,839,117	900	1,840,506	1082	1,842,162	1086	1,843,388	1044	1,844,679	1004	1,845,541	324	1,846,884	1109
1,839,124	980	1,840,688	1011	1,842,168	1042	1,843,413	1087	1,844,711	1056	1,845,542	324	1,846,931	1108
1,839,135	931	1,840,708	1087	1,842,179	1013	1,843,427	1078	1,844,712	1056	1,845,543	324	1,846,944	1075
1,839,136	931	1,840,715	996	1,842,180	1013	1,843,443	1044	1,844,714	1024	1,845,544	324	1,846,955	1076
1,839,155	990	1,840,789	992	1,842,181	1013	1,843,510	1039	1,844,716	1056	1,845,545	324	1,846,982	1086
1,839,161	1072	1,840,798	1007	1,842,186	984	1,843,516	1018	1,844,717	1024	1,845,546	324	1,847,007	1108
1,839,277	1017	1,840,827	1012	1,842,190	1041	1,843,520	1069	1,844,718	1024	1,845,547	324	1,847,015	1086
1,839,344	1086	1,840,834	1013	1,842,199	1065	1,843,541	1038	1,844,751	1088	1,845,548	324	1,847,023	1069
1,839,345	1086	1,840,909	965	1,842,200	1087	1,843,550	1069	1,844,769	1094	1,845,549	324	1,847,044	1087
1,839,362	1018	1,840,921	1087	1,842,203	992	1,843,570	1069	1,844,782	1060	1,845,560	1027	1,847,050	1075
1,839,388	971	1,840,930	1058	1,842,215	992	1,843,576	1041	1,844,849	1062	1,845,555	102		

ERRATA.

ABSTRACTS A., 1930 (PURE CHEMISTRY).

Page.	Col.	Line.	
1049	2	19	For " LIETHE " read " LEITHE."
1314	2	20* & 16*	In the abstract of the paper on the determination of traces of iron in biological material (T. von Fellenberg), for " potassium hydroxide " read " potassium carbonate " in each case.
1323	2	25	For " 193 " read " 190."

1931.

25	1	11	For " 986 " read " 981."
128	2	30	For " N. RYDBOM " read " M. RYDBOM."
553	2	30	For " KUESER " read " KNESER."
853	1	15—16	For " 1 : 3-Dimethylspirohydantoin " read " 1 : 7-Dimethylspirohydantoin."
952	2	5—6*	For " 6-(not 2-nitro- <i>m</i> -cresol " read " 2-nitro- <i>m</i> -cresol."
1051	2	3—4	For " dihydroergosterol I, m.p. 156°, [α] _D +4·01° in CHCl ₃ (acetate, m.p. 215—216°, [α] _D —4·4° in CHCl ₃) " read " dihydroergosterol I, m.p. 215—216°, [α] _D —4·4° in CHCl ₃ (acetate, m.p. 156°, [α] _D +4·01° in CHCl ₃)."
1101	2	22	For " Nutmeg " read " <i>Nigella</i> seed."
1112	1	2*	For " S. P. McCOLLUM and E. L. JONES " read " S. P. McCALLUM and F. L. JONES."
1142	1	15	For " 845 " read " 844."
1293	2	29	For " which " read " and."
1377	2	1	For " 3·33 " read " 2·33."
1429	2	8*	For " PCl ₅ " read " POCl ₃ ."
1430	1	5	For " PCl ₅ " read " POCl ₃ ."
1435	1	20—21	" 10-Thiocyanato-9 : 10-dihydrophenarsazine " should not be italicised (cf. Gibson <i>et al.</i> , A., 1930, 1601), and should have been described as " -5 : 10-," not " -9 : 10-."
1442	1	9*	For " HERBERT " read " HERTERT."

1932.

2	1	20*	For " SCHULER " read " SOHÜLER."
5	2	16*	For " SANA " read " SAHA."
64	2	19	For " MARAKAMI " read " MURAKAMI."
106	1	20*	For " this vol., 14 " read " A., 1931, 14."
110	1	20*	For " BRAUNBECK " read " BRAUNBEK."
131	2	11	For " BECHER " read " BECKER."
139	1	30	For " WERNADSKI " read " VERNADSKI."
143	2	19*	For " BADRAN " read " BARDAN."
164	2	4	For " MANGANI " read " MANGINI."
175	2	25*	For " EDWARDES " read " EDWARDS."
178	2	20 & 19*	For " N-methyl-2 : 5-di-iodopyridoxyl-2 : 6-dicarboxylato " read " Na 3 : 5-di-iodo- <i>N</i> -methyl-pyridine-2 : 6-dicarboxylate."
339	2	8*	For " KORNEC " read " CORNEG."
381	2	4*	For " [vi] " read " [iv] " and for " 154 " read " 144."
408	2	9—8*	For " acetamide- <i>p</i> -arsenoxides " read " acetanilide- <i>p</i> -arsenoxides."
408	2	11—10*	For " -acetamide- <i>p</i> -thioarsenite " read " acetanilide- <i>p</i> -thioarsenite."
408	2	15*	Delete " as described by these authors."
408	2	28*	For " Arylthioarsenites " read " Arylthioarsinates."
418	2	23*	For " McLELLAN " read " McCLELLAN."
419	2	1	For " OHATO " read " OHATA."
547	1	13*	For " lavorотатори " read " дextrorotatory."
615	1		In formula (V), at the top left-hand corner, for " CH-C " read " OH·CH-C."
631	2	3	For " POZNER " read " POSNER."
639	1	16*	For " FUGIWARA " read " FUZIWARA."
643	1	11*	For " DENISON " read " DENNISON."
651	2	18 & 17*	The sentence should read " Puberic acid is probably not a dihydroxybenzenedicarboxylic acid."
704	2	12	For " log log (p _o —p _f) " read " log (p _o —p)."
726	1	21*	For " PRERET " read " PERRET."
807	1	29	For " BINGER " read " BINGER."
816	1	12*	Insert " The following are described: <i>p</i> -methyl-, m.p. 185—186° (picrate, m.p. 149—150°), <i>p</i> -methoxy-, m.p. 202—203° (picrate, m.p. 144—145°), <i>p</i> -iodo-, m.p. 179—180° (picrate, m.p. 151—152°), <i>p</i> -chloro-, m.p. 175—176° (picrate, m.p. 155—156°), <i>o</i> -, m.p. 168—169° (decomp.) (picrate, m.p. 167—168°), and <i>m</i> -nitro-phenacylbenzyldimethylammonium bromide, m.p. 153—154° (picrate, m.p. 134—135°), <i>p</i> -nitrophenacylbenzyldimethylammonium chloride, m.p. 176° (picrate, m.p. 164—165°), <i>m</i> -, m.p. 180—181° (picrate, m.p. 149—150°), and <i>o</i> -bromophenacylbenzyldimethylammonium iodide, m.p. 134—135° (picrate, m.p. 125—126°); <i>ω</i> -chloro- <i>m</i> -bromoacetophenone, m.p. 47—48°; <i>ω</i> -dimethylamino- <i>ω</i> -benzyl- <i>p</i> -methylacetophenone, m.p. 62°; <i>p</i> -methoxy-, m.p. 57—58°, <i>p</i> -iodo-, m.p. 119—120°, <i>p</i> -chloro-, m.p. 91—92°, <i>m</i> -nitro-, m.p. 77—78°, <i>m</i> -bromo-, m.p. 99—100°, and <i>o</i> -bromo- <i>ω</i> -dimethylamino- <i>ω</i> -benzylacetophenone (picrate, m.p. 126—127°).

* From bottom.



840	1	10	For "(I)" read "(II)" and for "(II)" read "(I)."
854	1	32	For "afford" read "the former affords."
854	1	4*	For $\text{NHMo-CH}_2\text{Ph}$ read " $\text{NPhMe-CH}_2\text{Ph}$."
979	2	5*	For "ILINSKI" read "ILJINSKI."
980	2	23*	For " $\text{N}^{15}\text{N}^{16}/\text{N}^{14}\text{N}^{18}$ " read " $\text{N}^{14}\text{N}^{18}\text{N}^{15}\text{N}^{16}$."
1018	2	30*	For "H. A. WATERMAN" read "H. I. WATERMAN."
1091	1	35	For " $\text{Th}(\text{SO}_4)_2$ " read " $\text{Th}(\text{SO}_4)_2 \cdot 8\text{H}_2\text{O}$."
1091	1	38	For " $\text{Th}(\text{SO}_4)_2$ " read " MnSO_4 ."
1102	2	7	For "fuschin" read "fuchsin."
1106	2	6*—8*	For "Granite" read "Garnet."
1106	2	3*	For "granite" read "garnet."
1106	2	7*	For "Roseo" read "Rosso."
1153	1	10*	For "EICHERL" read "EICHEL."
1155	2	6	For "RAVIDIN" read "RAVDIN."
1175	2	8*	After "HARRIS" insert "I. MILLS."
1193	1	32	For "SCHMIDT" read "SCHIMID."
1253	2	28	For "SCHENK" read "SCHWENK."
1283	2	13*	For "VUDKIN" read "YUDKIN."
1293	1	14*	For "LAQUER" read "LAQUEUR."

ABSTRACTS B., 1932 (APPLIED CHEMISTRY).

Page.	Col.	Line.	
1004	1	27	For "B.P. 350,936" read "B.P. 350,963."
7	2	25	For "Pt" read "Pb."
41	1	12* & 14*	For " C_2Cl_4 " read " $\text{C}_2\text{H}_2\text{Cl}_4$."
100	1	11	For "R. V. WHEELER" read "T. S. WHEELER."
103	2	32	For "E. G. BRITTON" read "E. C. BRITTON."
105	1	1	For "COLIN" read "COLLIN."
167	2	1	For "Bertinisation" read "Berginisation."
185	2	7	For "quick-drawn steel" read "high-speed tool steel."
200	2	29	For "GUILBERT" read "GILBERT."
222	1	25*	For "359298" read "359398."
269	1	21	For "Huzimoto" read "FUZIMOTO."
321	1	15*	For "FARREL" read "FARRELL."
405	2	26*	For "B.P. 567,368" read "B.P. 367,368."
511	1	20*	For "No. 230" read "No. 330."
605	2	29—31	Should read: The rate of corrosion . . . was only about 20% faster than that in air; in 0.5N-NaCl the rate is increased by 2.5 times."
617	2	19	For "accounts" read "amounts."
681	1	29*	For "DE ARANJO" read "DE ARAUJO."
695	2	11*	For "I. J. KISELEV" read "I. S. KISELEV."
714	1	25	For "U.S.P. 1,825,466" read "U.S.P. 1,828,466."
728	2	31	For "LOSANO" read "LOSANA."
751	1	21	For "aspidnm" read "aspidium"
763	2	2*	For "370830" read "370820."
788	1	20*	For "B.P. 1,832,269" read "U.S.P. 1,832,269."
823	2	18	For "BENTON" read "BELTON."
850	2	22*	For "0.58 in." read "0.58 cm."
1020	1	3	For "B.P. 337,631" read "B.P. 377,631."
1023	2	10*	For "JARREL" read "JARRELL."
1026	2	15*	For "weighing" read "weighting."

ABSTRACTS INDEX, 1932.

Page.	Col.	Line.	
14	2	42	Entry under Ball, M., should be on page 29, col. 3, under Boll, M.
52	1	34	Entry under Chu-Phay, Y., should be on page 321, col. 2, under Yap, Chu-Phay.
255	1	16*	Entry under Schenk, E., should be on page 261, col. 2, under Schwenk, E.

* From bottom.

